

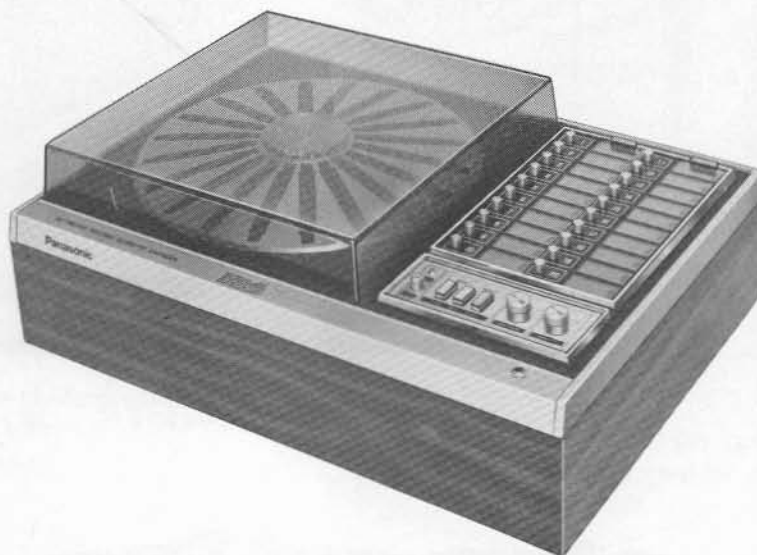
# Service Manual

**Panasonic**

**TAPE RECORDER**

**Panasonic**

## AUTOMATIC 20-CASSETTE CHANGER



RS-296US MECHANISM SERIES

MODEL **RS-296US**

### SPECIFICATIONS

|                    |                                        |                        |                                                                      |
|--------------------|----------------------------------------|------------------------|----------------------------------------------------------------------|
| Power Source:      | AC: 120 volts, 50/60 Hz                | Frequency Response:    | 20~13,000 Hz                                                         |
| Power Consumption: | 15 W (Playback)                        | Signal to Noise Ratio: | Better than 45 dB                                                    |
| Motor:             | 2-mechanical governor motor            | Outputs:               | 2-LINE    -6 dB (500 mV)/4.7 K $\Omega$<br>1-HEADPHONE    8 $\Omega$ |
| Operation:         | Push button controls                   | Head:                  | 1-head system                                                        |
| Tape Speed:        | 1-7/8 ips.                             | Dimensions:            | 21-1/4" (W) $\times$ 8-1/8" (H) $\times$ 15-1/4" (D)                 |
| Program Time:      | 20 hours (with 20 C-60 tape cassettes) | Weight:                | 41 lbs. (with dust cover)                                            |
| Track System:      | 4-track 2-channel stereo playback      |                        |                                                                      |
| Wow and Flutter:   | Less than 0.2%                         |                        |                                                                      |

These specifications are subject to change in order to accommodate improvements in design.

**MATSUSHITA ELECTRIC CORP. OF AMERICA**  
**MATSUSHITA ELECTRIC OF HAWAII, INC.**  
**MATSUSHITA ELECTRIC OF CANADA LTD.**

Pan-Am Bldg., 200 Park Ave. New York, N.Y. 10017  
320 Waiakamilo Road, Honolulu, Hawaii 96817  
40 Ronson Drive, Rexdale, Ont.

ORDER NO. ARD-7210224

# LOCATION OF PARTS

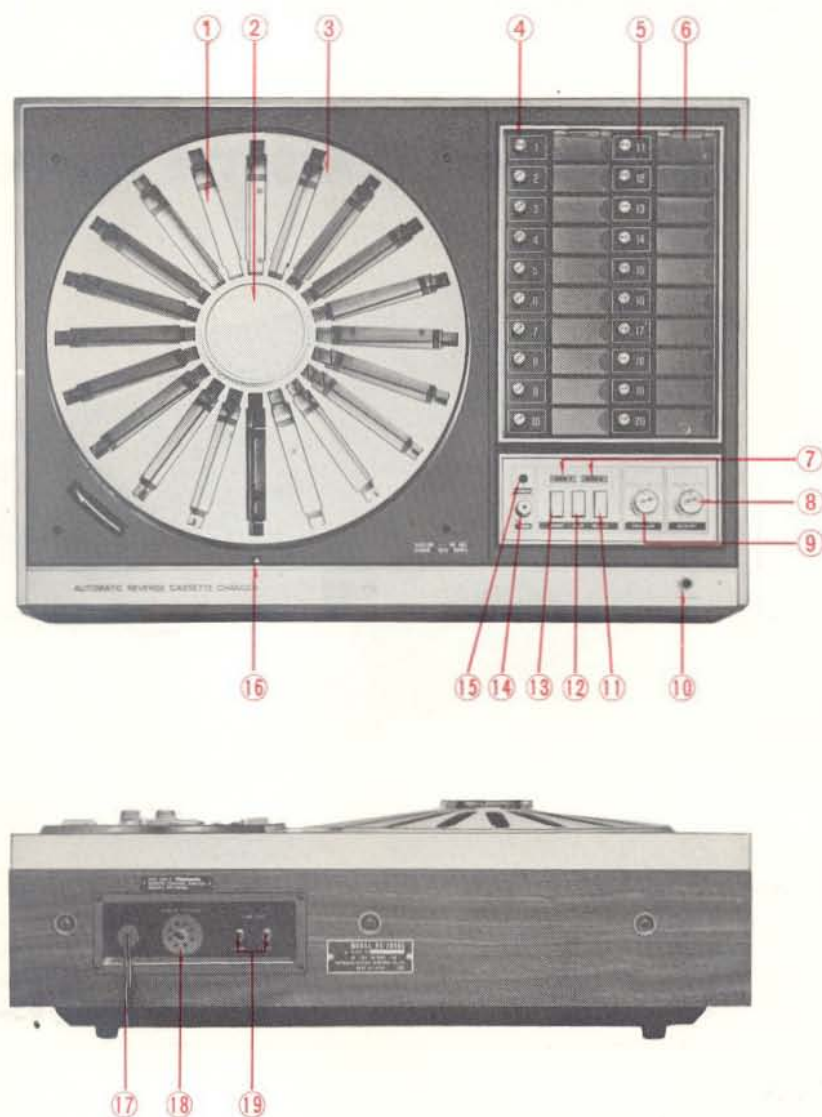


Fig. 1

- |                            |                              |
|----------------------------|------------------------------|
| ① Tape slots               | ⑪ Eject button               |
| ② Cassette numbers         | ⑫ Stop button                |
| ③ Carousel                 | ⑬ Start button               |
| ④ Selection buttons        | ⑭ Power switch               |
| ⑤ Cassette indicator       | ⑮ Stand-by indicator         |
| ⑥ Title cards              | ⑯ Playing position indicator |
| ⑦ Side 1/Side 2 indicators | ⑰ Power cord                 |
| ⑧ "Memory" selector        | ⑱ Remote control receptacle  |
| ⑨ "Program" selector       | ⑲ Line output jacks          |
| ⑩ Headphone jack           |                              |

# DISASSEMBLY INSTRUCTIONS

## HOW TO REMOVE PANEL

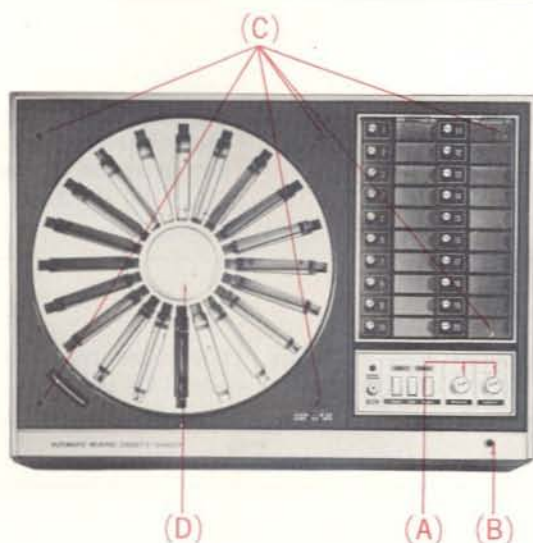


Fig. 2

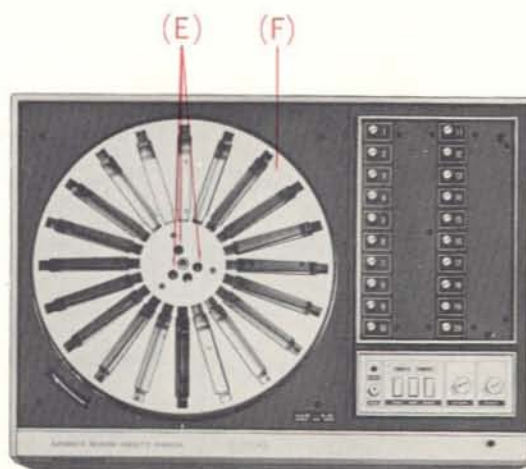


Fig. 3

1. Remove 2 knobs (A), the headphone jack holding nut (B) and 6 panel holding screws (C).
2. Then panel can be removed.

### NOTE:

- \* To remove the cap (D), pull it up.
- \* To remove the carousel (F), remove 3 carousel holding screws (E).

## HOW TO REMOVE CHASSIS

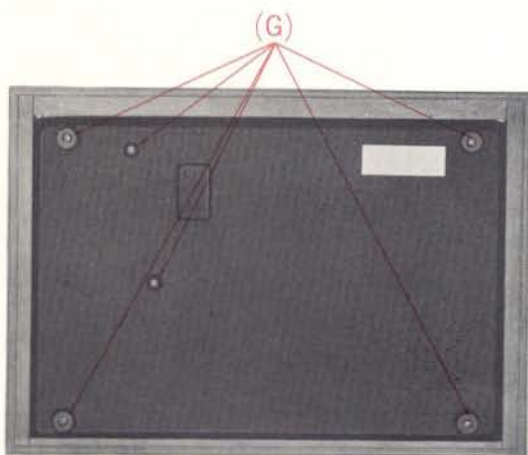


Fig. 4

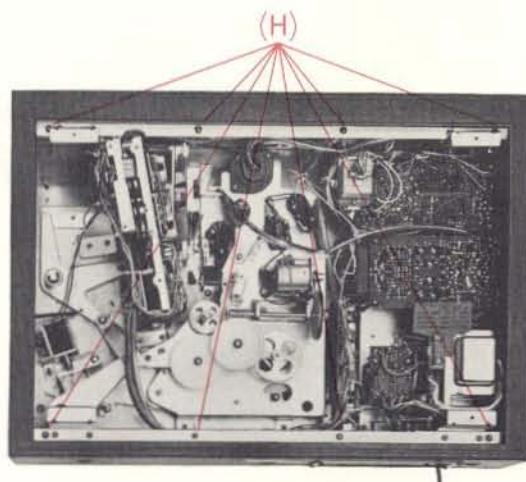
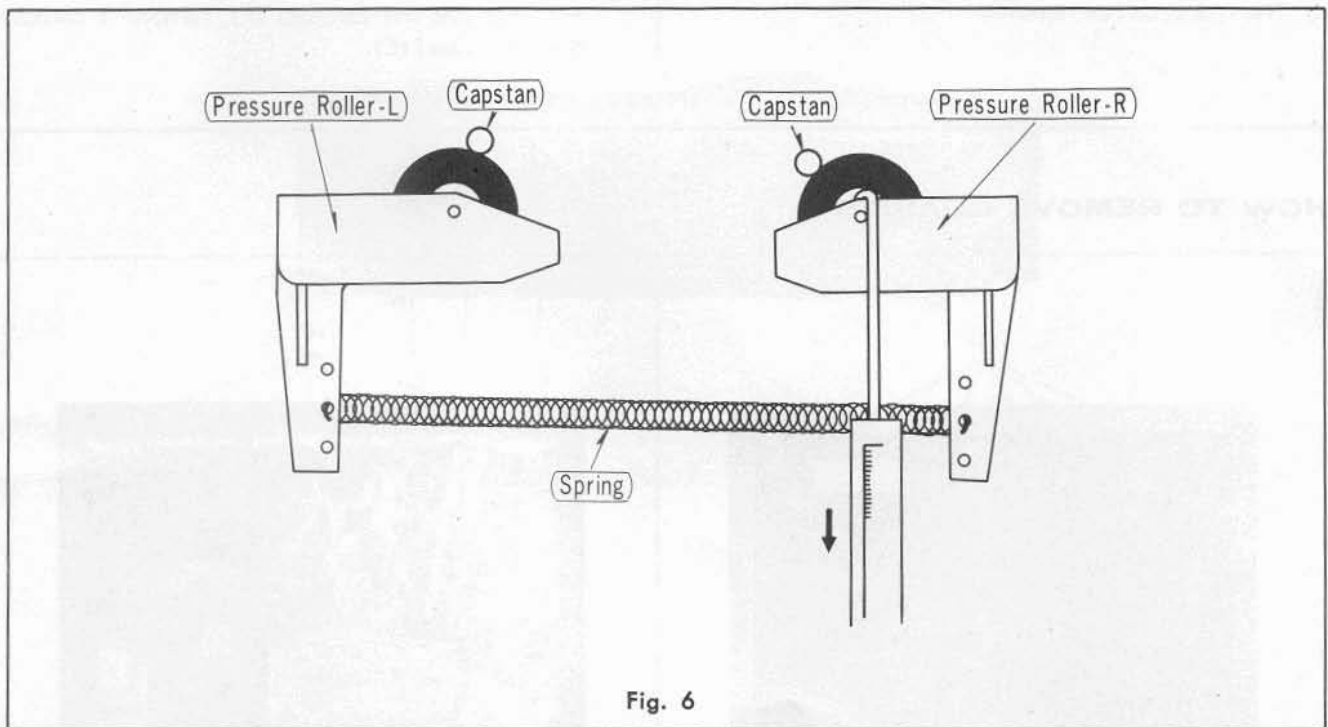


Fig. 5

1. Remove 6 bottom case holding screws (G).
2. Remove 8 chassis holding screws (H).
3. Then chassis can be removed.

# MECHANICAL ADJUSTMENTS

| ITEM                        | MEASUREMENT METHOD                                                       | MODE     | SPEC.             | ADJUSTMENT METHOD                                                                  | REMARKS                                                                  |
|-----------------------------|--------------------------------------------------------------------------|----------|-------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Pressure roller adjustment. | Shown in fig. 6.<br>Pull the spring scall in the direction of the arrow. | Playback | $400 \pm 30$ gr   | Adjust by changing the spring hanging position (hole).                             | Value is indicated when the pressure roller moves away from the capstan. |
| Takeup tension adjustment.  | Shown in fig. 7.                                                         | Playback | $60 \pm 10$ gr-cm | Move the set collar shown in fig. 8 in either of the direction shown by the arrow. | Loosen set screw and adjust the set collar.                              |



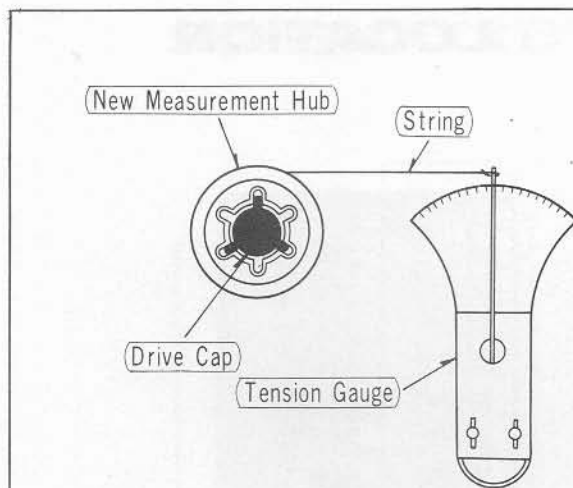


Fig. 7

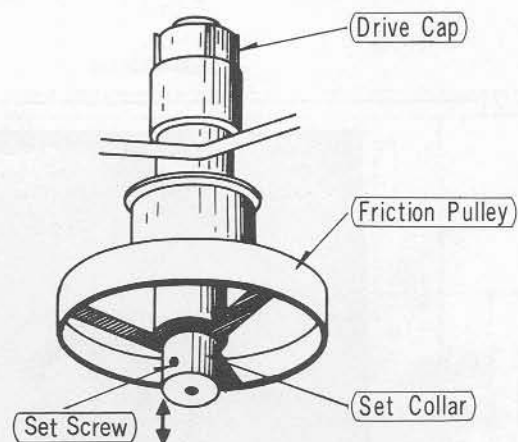
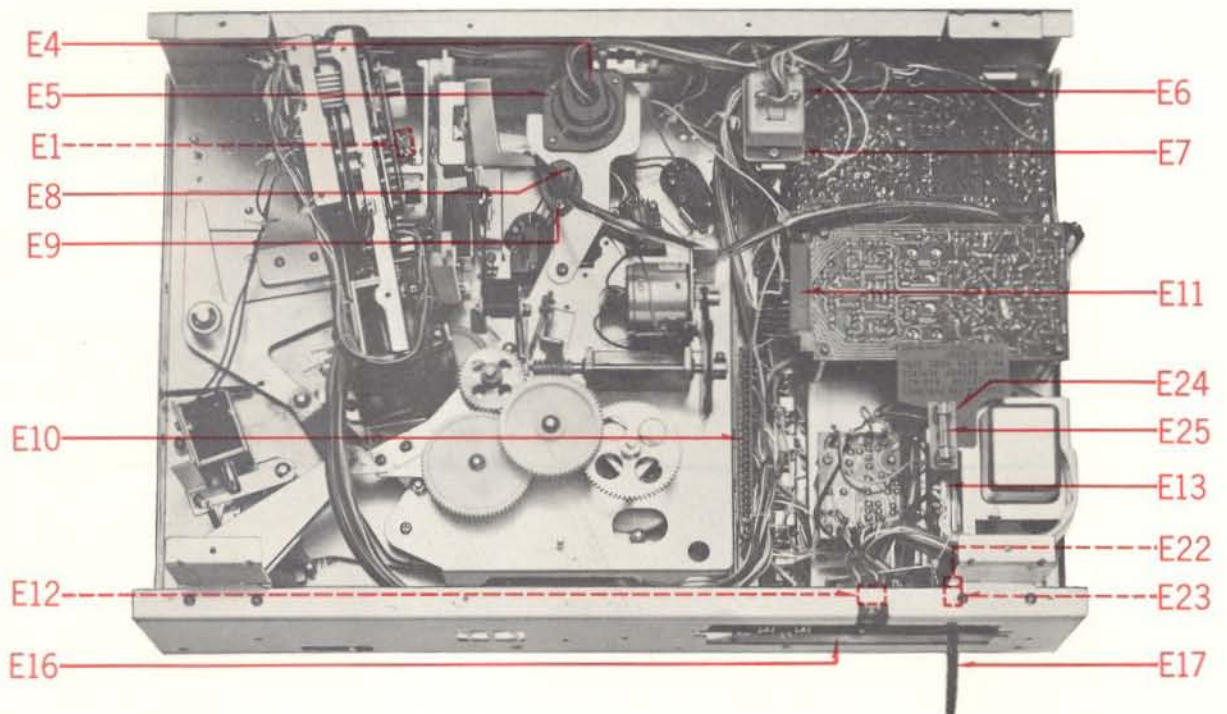
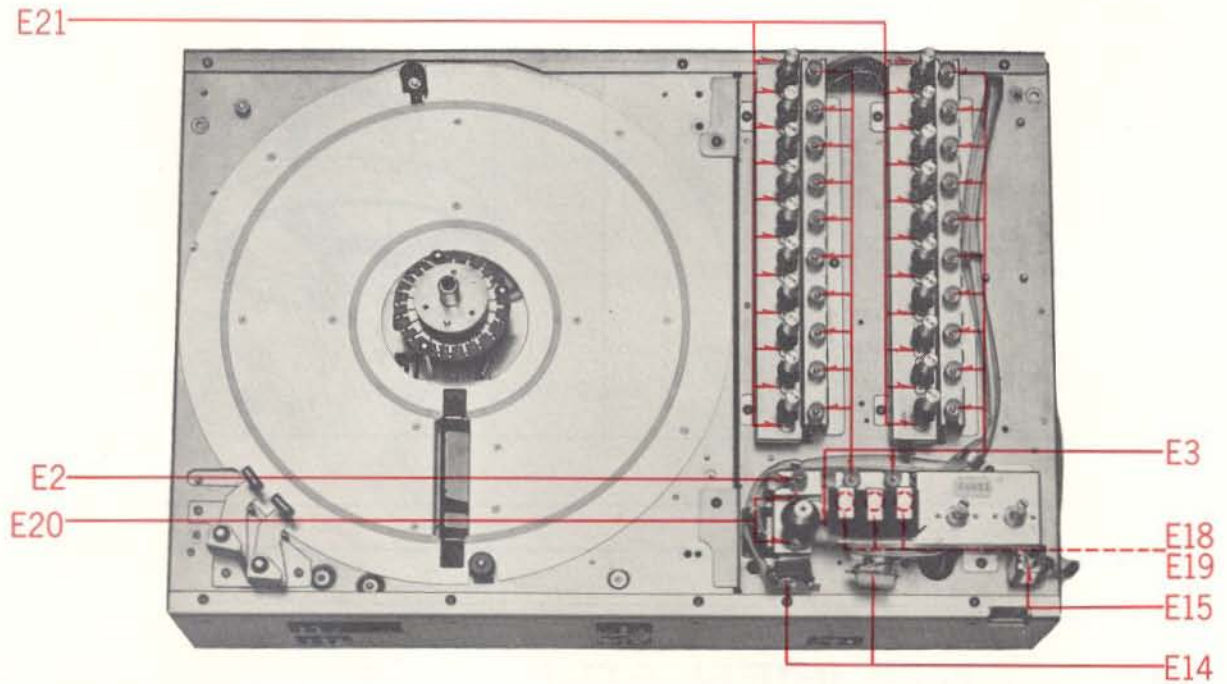


Fig. 8

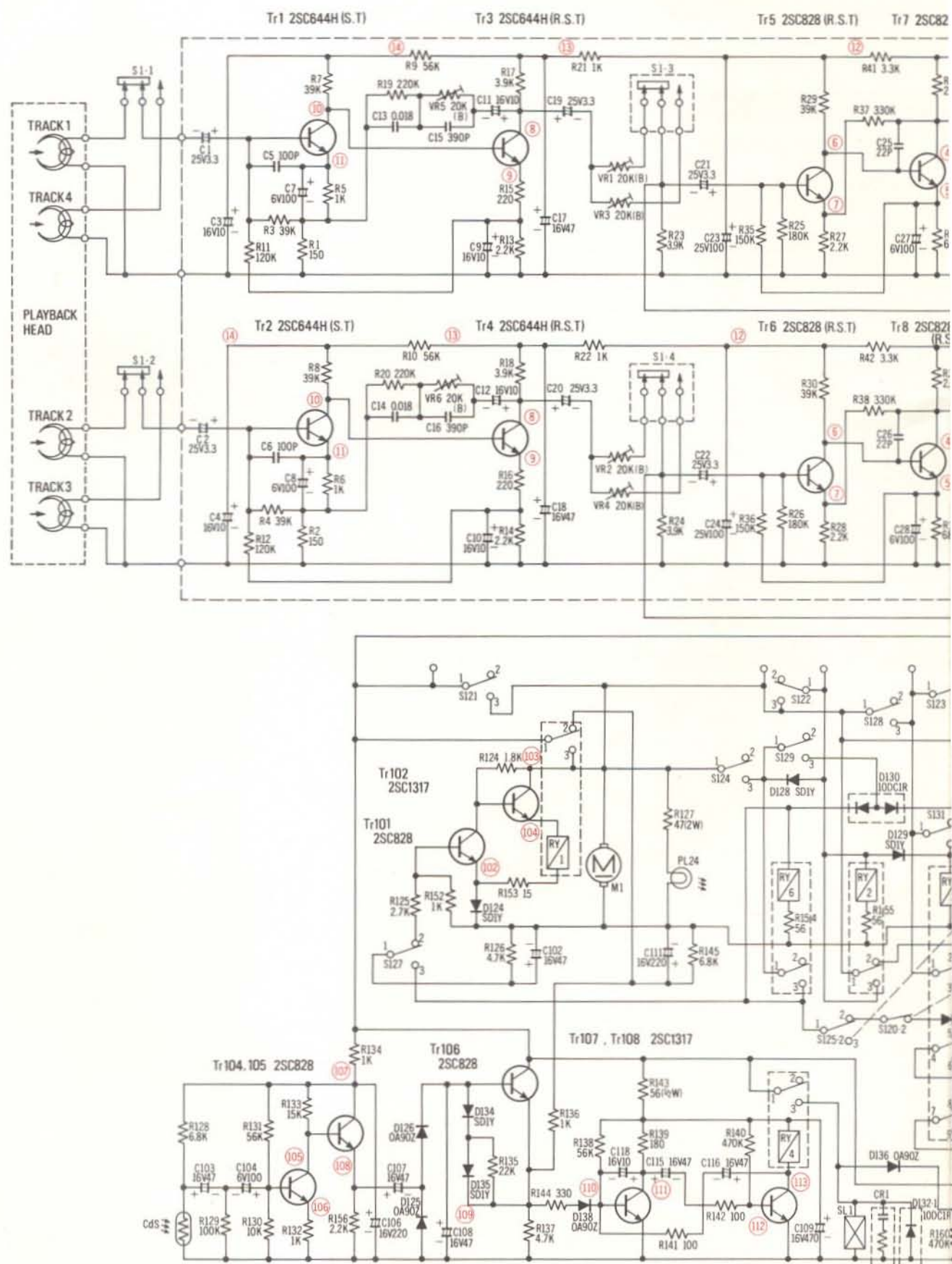
## AMPLIFIER ADJUSTMENTS

| ITEM                | SIGNAL SOURCE CONNECTION           | OUTPUT CONNECTION          | ADJUSTMENT                           | SPEC.                                                                                                     | REMARKS                                                         |
|---------------------|------------------------------------|----------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Gain adjustment.    | Playback the test tape (NO. C-FD). | VTVM to line output jacks. | VR1, 2 (Forward)<br>VR3, 4 (Reverse) | 0.5 V                                                                                                     | —                                                               |
| Frequency response. | Playback the test tape (NO. C-FD). | VTVM to line output jack.  | VR5 (CH1)<br>VR6 (CH2)               | As compared with the value at 333 Hz, the value at 125 Hz, 4 kHz and 6.3 kHz should be within $\pm 3$ dB. | If the value at 6.3 kHz is out of tolerance, adjust VR5 or VR6. |

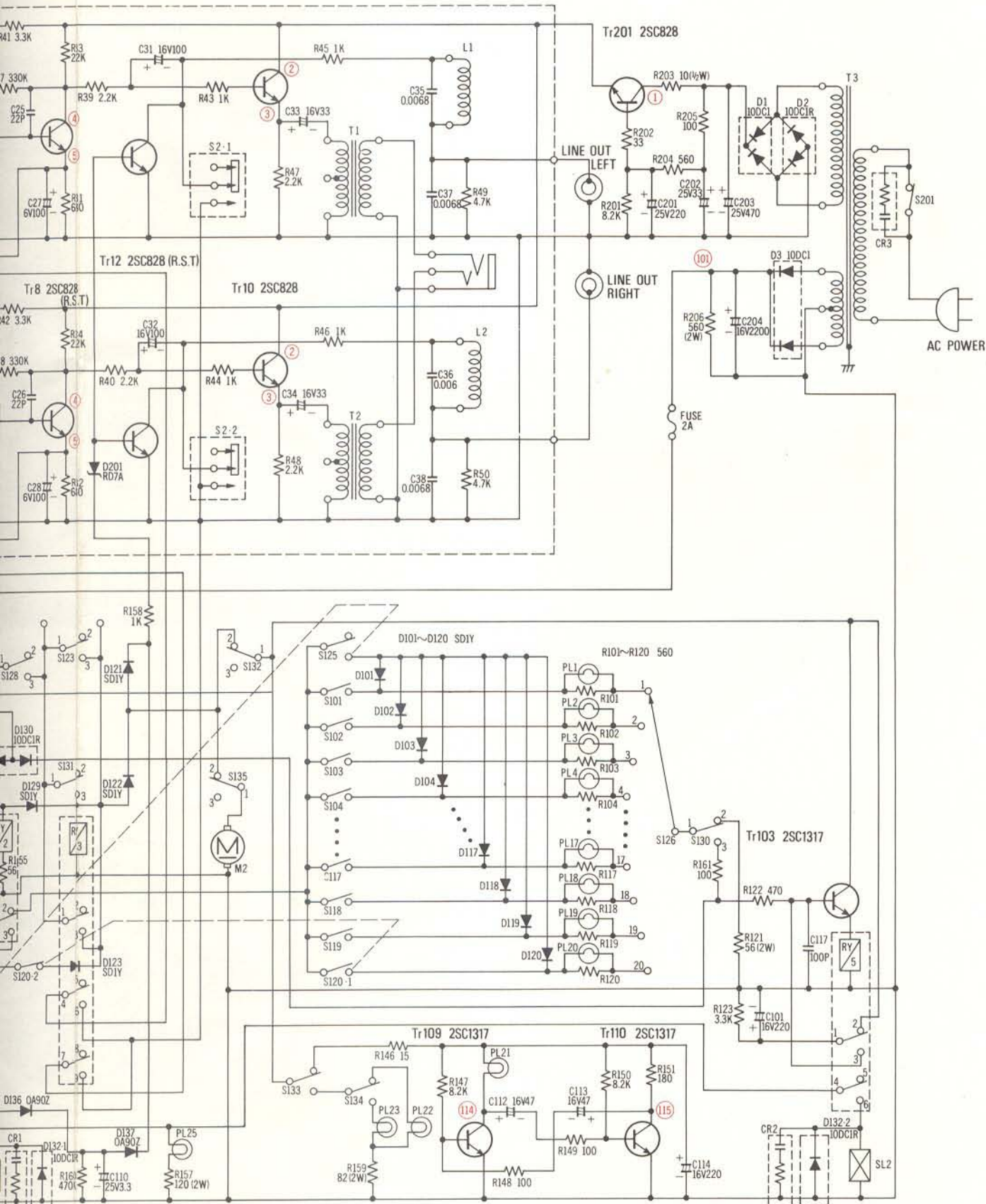
# ELECTRICAL PARTS LOCATION



## SCHEMATIC DIAGRAM MODEL RS-296US



Tr7 2SC821(R.S.T) Tr11 2SC828(R.S.T) Tr9 2SC828



| Check Point |
|-------------|
| ①           |
| ②           |
| ③           |
| ④           |
| ⑤           |
| ⑥           |
| ⑦           |
| ⑧           |
| ⑨           |
| ⑩           |
| ⑪           |
| ⑫           |
| ⑬           |
| ⑭           |

NOTE: All with Use The

NOTE:

1. S1-1
2. S2-1
3. S101
4. S121
5. S122
6. S123
7. S124
8. S125
9. S126
10. S127
11. S128
12. S129
13. S130
14. S131
15. S132
16. S133
17. S134
18. S135
19. S201
20. VR1
21. VR2
22. VR3
23. VR4
24. VR5
25. VR6
26. Resis K=1
27. Capa P=P
28. Encir The v

STANDARD VOLTAGE CHART

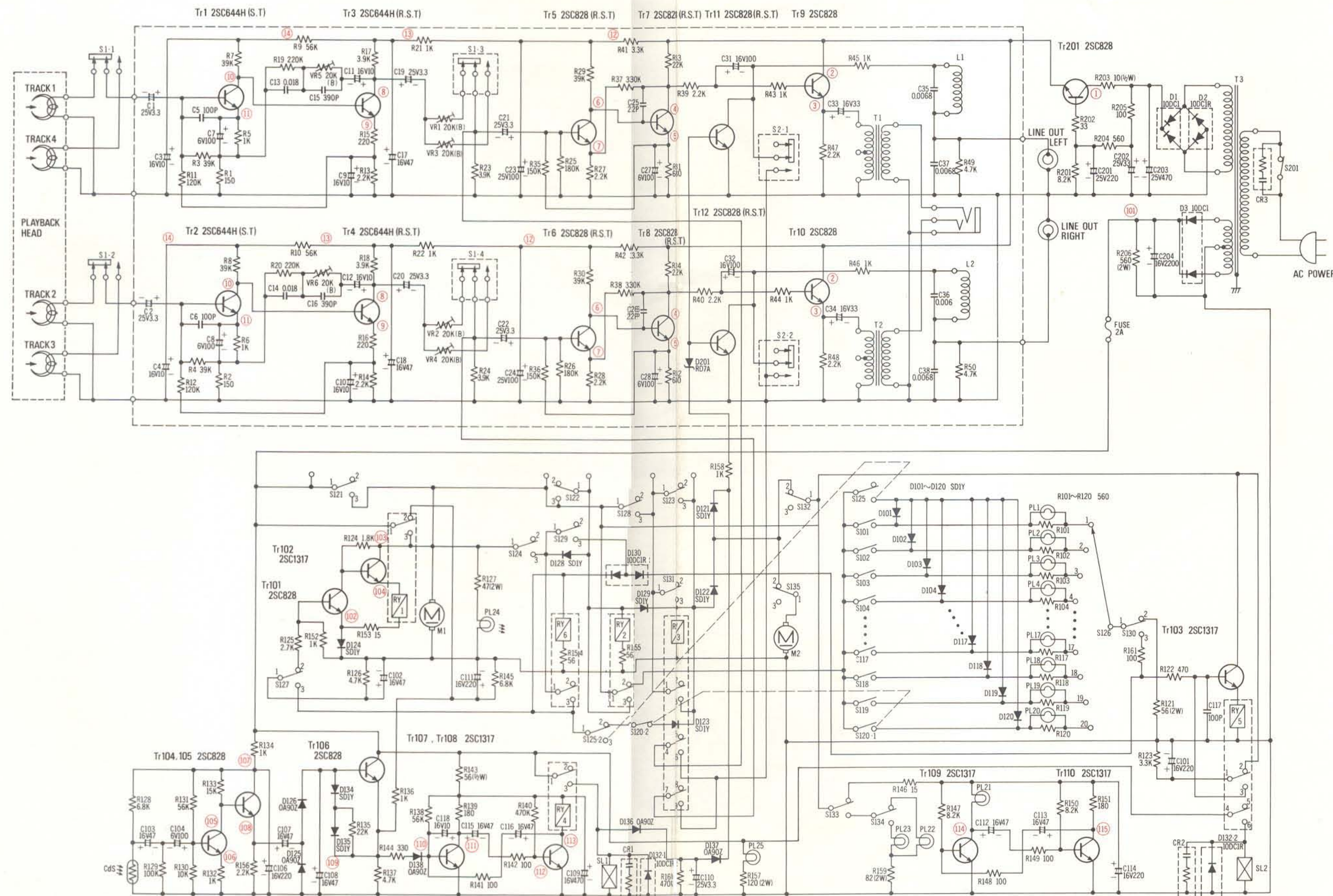
| Check Point | Value  | Check Point | Value      |
|-------------|--------|-------------|------------|
| ①           | + 20V  | ⑩           | + 12V      |
| ②           | + 20V  | ⑪           | +0.75V     |
| ③           | +11.5V | ⑫           | + 12V      |
| ④           | + 12V  | ⑬           | + 11V      |
| ⑤           | + 2.2V | ⑭           | +4.5 ±3V   |
| ⑥           | +2.4 V | ⑮           | +0.6 ±0.3V |
| ⑦           | + 0.7V | ⑯           | + 10V      |
| ⑧           | + 5.8V | ⑰           | + 5V       |
| ⑨           | + 3.6V | ⑱           | + 6.8V     |
| ⑩           | + 4V   | ⑲           | + 0.6V     |
| ⑪           | +0.05V | ⑳           | + 0.1V     |
| ⑫           | + 16V  | ㉑           | + 0.6V     |
| ⑬           | + 12V  | ㉒           | + 10V      |
| ⑭           | +11.5V | ㉓           | +7 ±6.5V   |
|             |        | ㉔           | +7 ±6.5V   |

NOTE: All measurements are under no signal condition with volume at minimum position.  
Use VTVM for voltage measurements.  
The value for No. 105, 106, 114, 115 have fluctuations.

## NOTE:

- S1-1~S1-4..... Forward/reverse select switch (shown in forward).
- S2-1, S2-2 ..... Signal stop switch (OFF in playback).
- S101~S120 ..... Cassette select switch (ON when pushed, and cassette selected is played. For S120-2, OFF when pushed).
- S121..... Start switch (interlocked with start button. ON while pushed).
- S122..... Stop switch (interlocked with stop button. ON while pushed).
- S123..... Reject switch (interlocked with reject button. ON while pushed).
- S124..... Continue/one cycle select switch (shown in continue).
- S125..... Consecutive/selective select switch (shown in selective).
- S126..... Cassette detection switch.
- S127..... Elevator descent detection switch (shown is not descending).
- S128..... Elevator descent detection switch (ON when descending).
- S129..... 20th cassette detection switch (ON when 20 th cassette passes).
- S130..... Cassette transit detection switch (contacts 1 and 3 come into contact when cassette passes).
- S131..... Reverse play end detection switch (ON when reverse play ends).
- S132..... Cassette set detection switch (OFF when cassette is mounted in fixed position on deck).
- S133..... Preparation/play indicator select switch (shown in preparation).
- S134..... Forward/reverse indicator select switch.
- S135..... Motor protection switch.
- S201..... Power ON/OFF switch.
- VR1 ..... Level adjust VR (for CH1, forward).
- VR2 ..... Level adjust VR (for CH2, forward).
- VR3 ..... Level adjust VR (for CH1, reverse).
- VR4 ..... Level adjust VR (for CH2, reverse).
- VR5 ..... Equalizer adjust VR (for CH1).
- VR6 ..... Equalizer adjust VR (for CH2).
- Resistors are ohms ( $\Omega$ ), 1/4 watt unless specified otherwise. K=1,000 $\Omega$ .
- Capacitors are microfarad ( $\mu$ F) unless specified otherwise. P=Pico-farads.
- Encircled numbers (○) show the checkpoints for voltage. The values are marked in the standard voltage chart.

# SCHEMATIC DIAGRAM MODEL RS-296US



STANDARD VOLTAGE CHART

| Check Point | Value   | Check Point | Value        |
|-------------|---------|-------------|--------------|
| 1           | + 20V   | 10          | + 0.75V      |
| 2           | + 20V   | 11          | + 12V        |
| 3           | + 11.5V | 12          | + 11V        |
| 4           | + 12V   | 13          | + 4.5 ± 3V   |
| 5           | + 2.2V  | 14          | + 0.6 ± 0.3V |
| 6           | + 2.4 V | 15          | + 10V        |
| 7           | + 0.7V  | 16          | + 5V         |
| 8           | + 5.8V  | 17          | + 6.8V       |
| 9           | + 3.6V  | 18          | + 0.6V       |
| 10          | + 4V    | 19          | + 0.1V       |
| 11          | + 0.05V | 20          | + 0.6V       |
| 12          | + 16V   | 21          | + 10V        |
| 13          | + 12V   | 22          | + 7 ± 6.5V   |
| 14          | + 11.5V | 23          | + 7 ± 6.5V   |

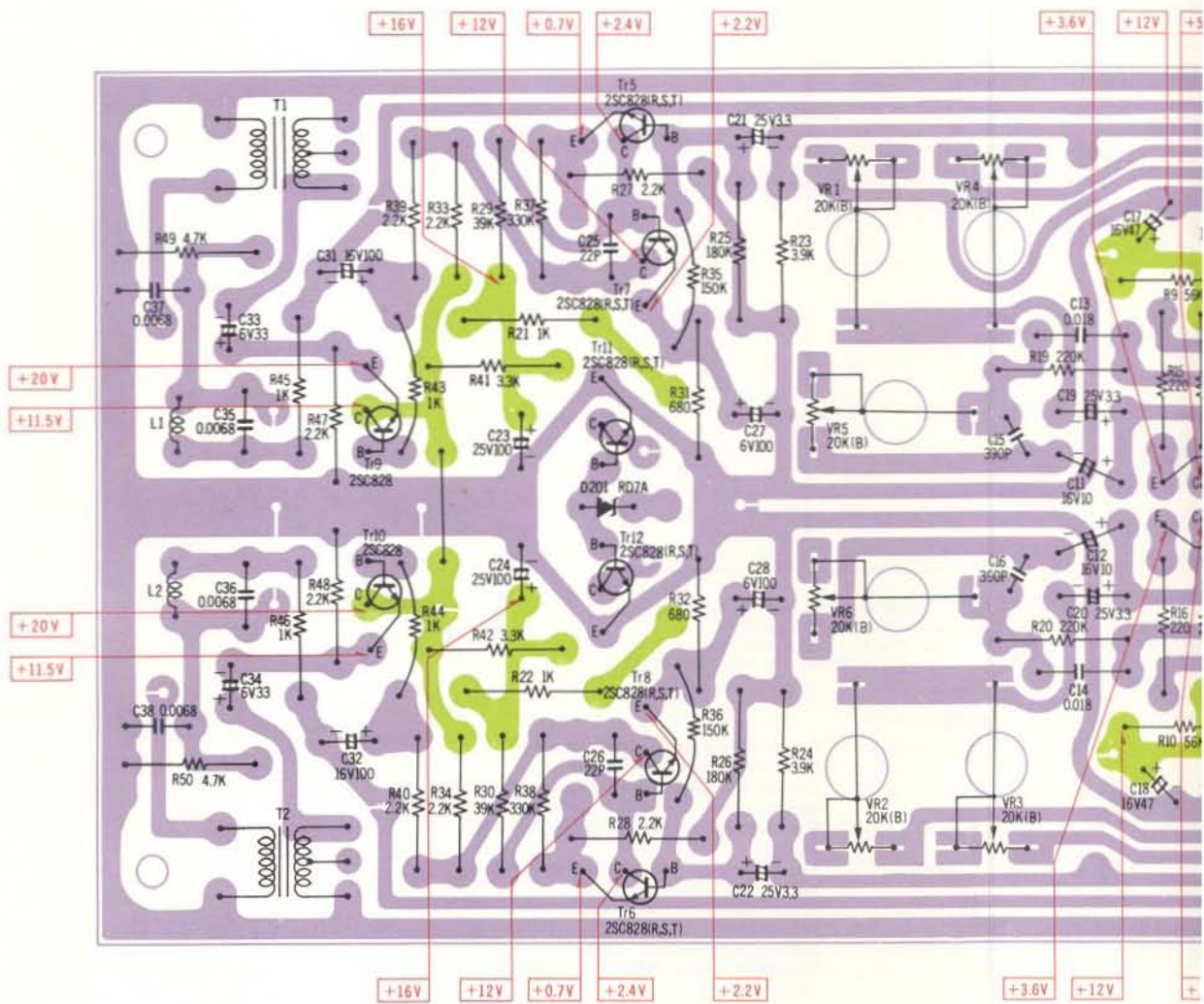
NOTE: All measurements are under no signal condition with volume at minimum position. Use VTVM for voltage measurements. The value for No. 105, 106, 114, 115 have fluctuations.

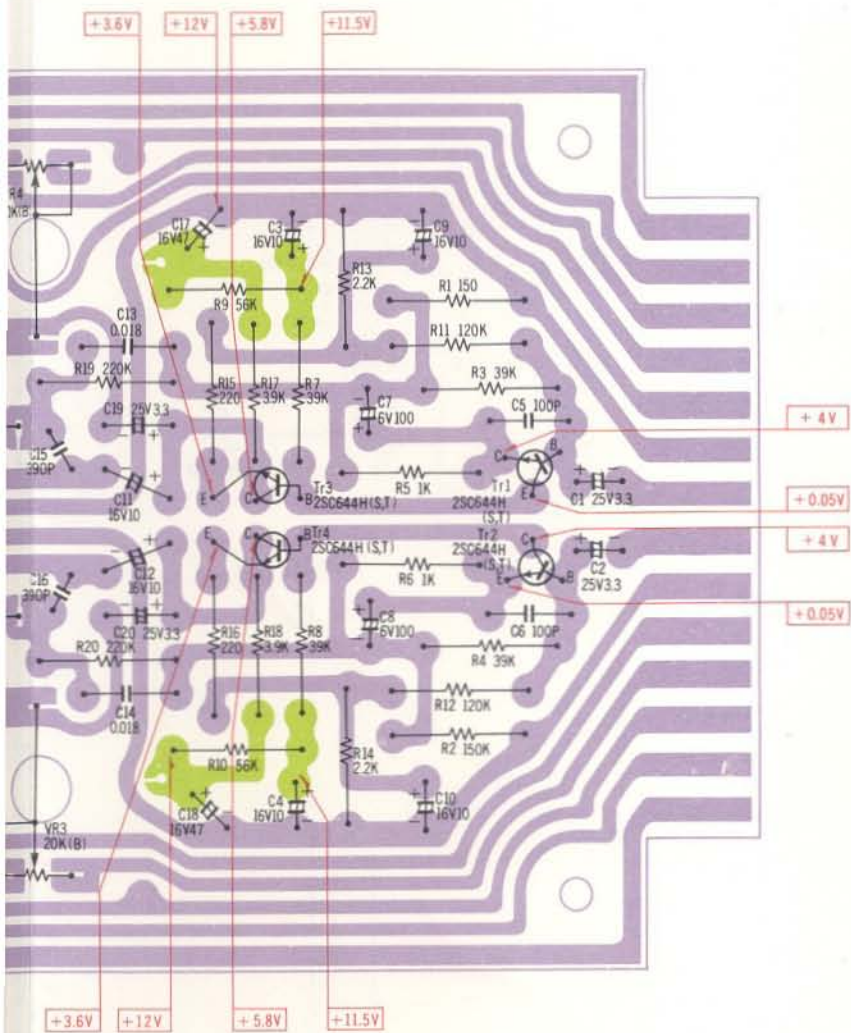
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- VR3 ..... Level adjust VR (for CH1, reverse).
- VR4 ..... Level adjust VR (for CH2, reverse).
- VR5 ..... Equalizer adjust VR (for CH1).
- VR6 ..... Equalizer adjust VR (for CH2).
- Resistors are ohms (Ω), 1/4 watt unless specified otherwise. K=1,000Ω.
- Capacitors are microfarad (μF) unless specified otherwise. P=Pico-farads.
- Encircled numbers (○) show the checkpoints for voltage. The values are marked in the standard voltage chart.

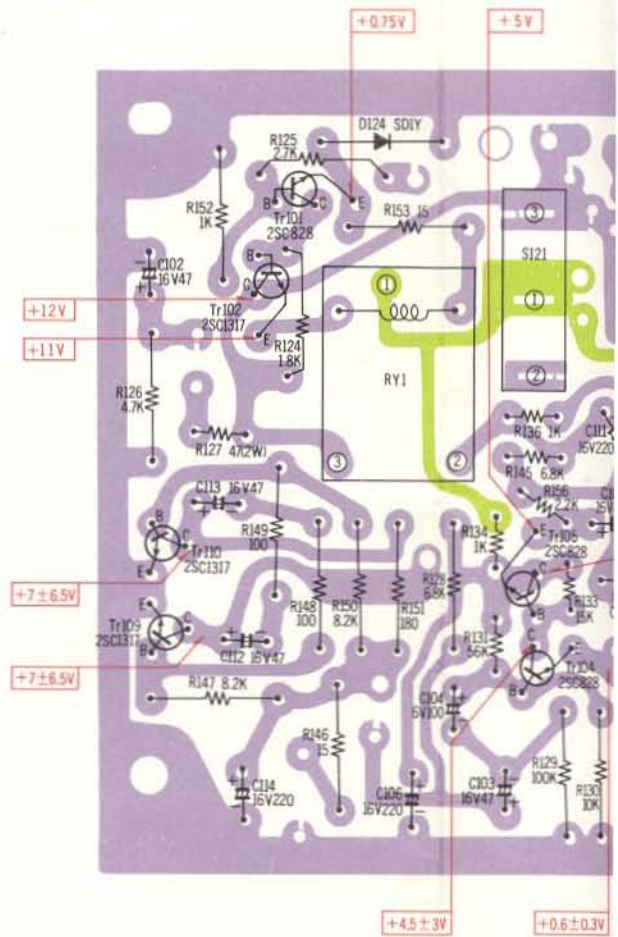
## CIRCUIT BOARD

## MAIN CIRCUIT BOARD

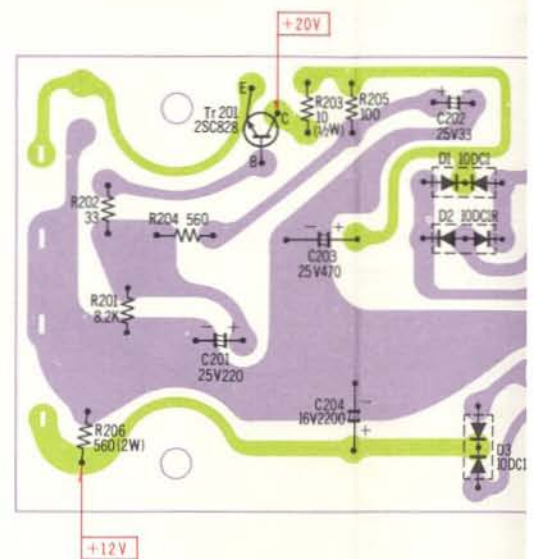




## CONTROL CIRCUIT BOARD



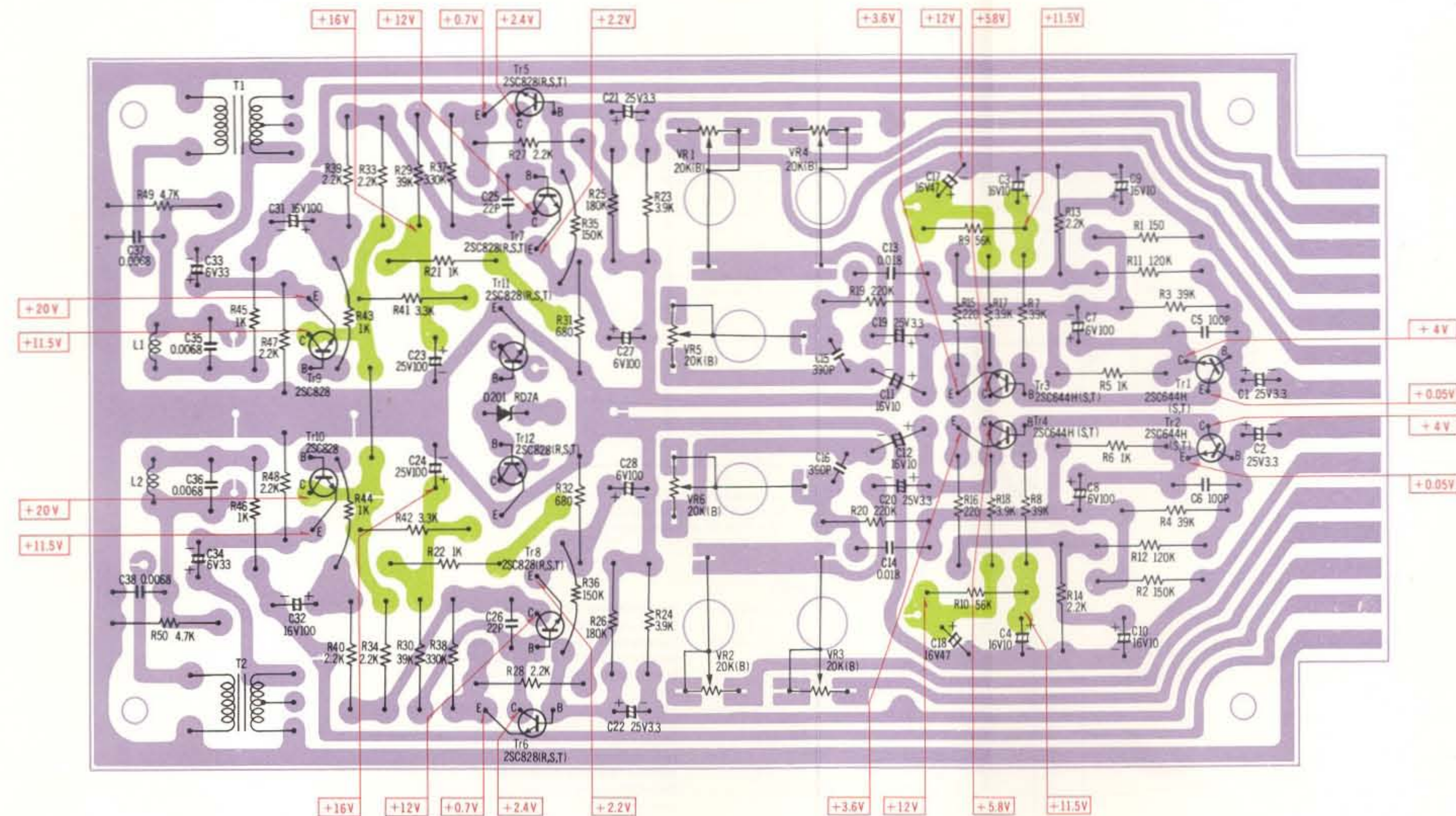
## POWER CIRCUIT BOARD



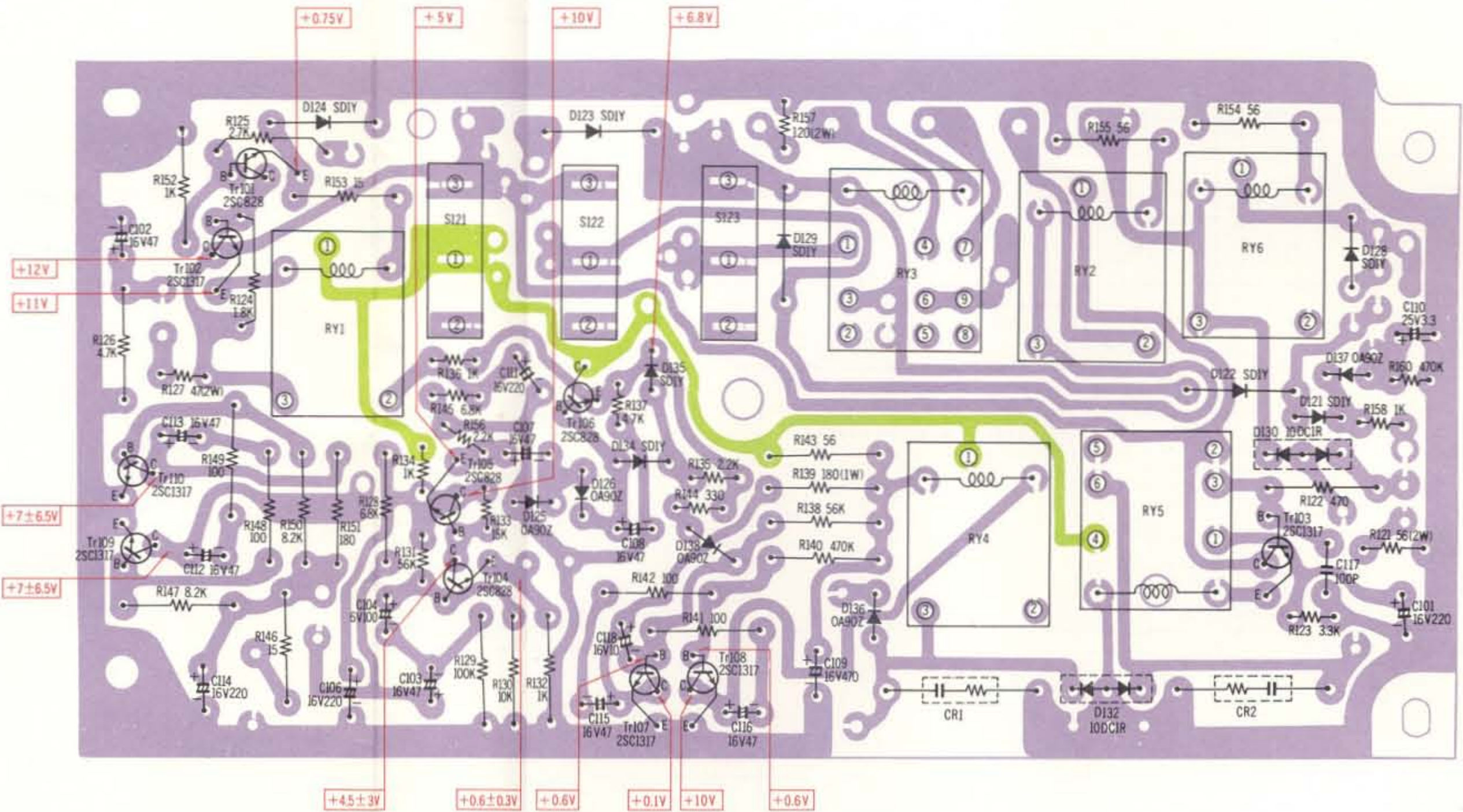


# CIRCUIT BOARD

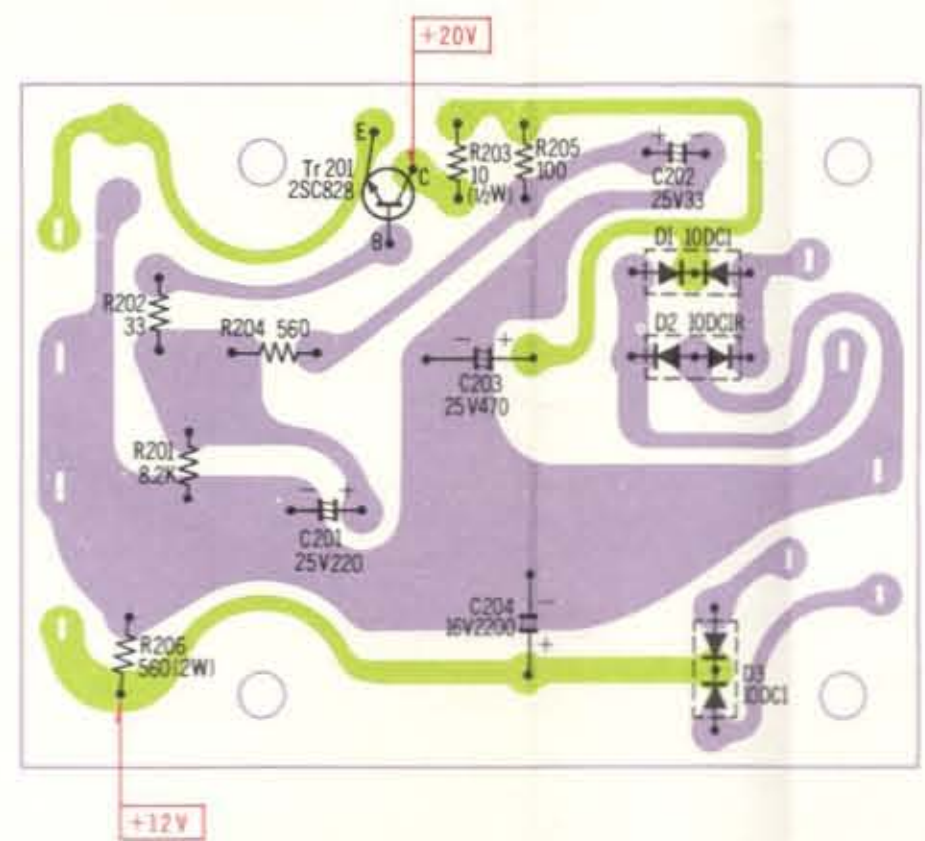
## MAIN CIRCUIT BOARD



## CONTROL CIRCUIT BOARD

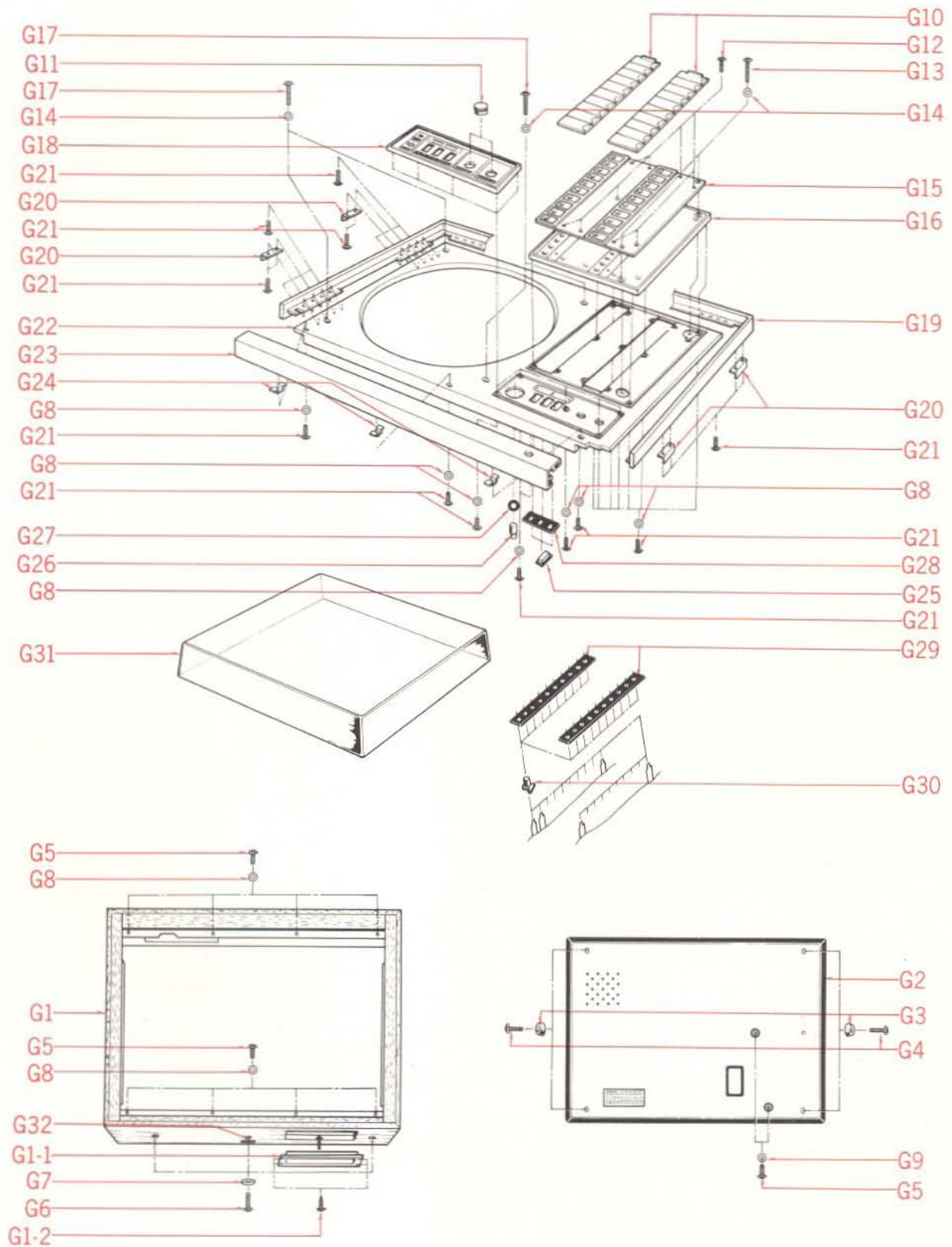


## POWER CIRCUIT BOARD

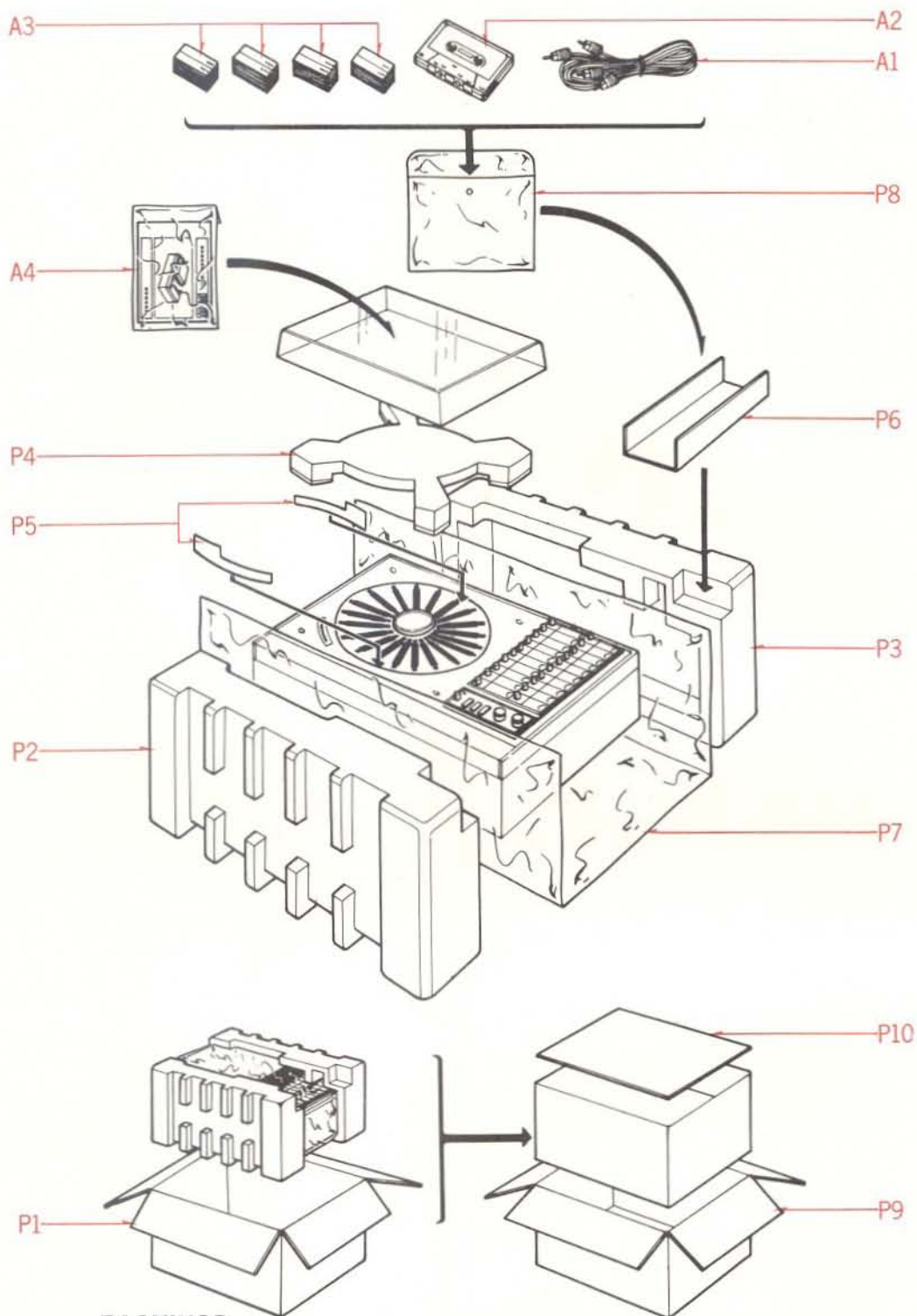


**NOTE:**  
The circuit shown in green on the conductor is +B circuit.  
Values indicated in    are DC voltages between the chassis and electrical parts.

# CABINET PARTS



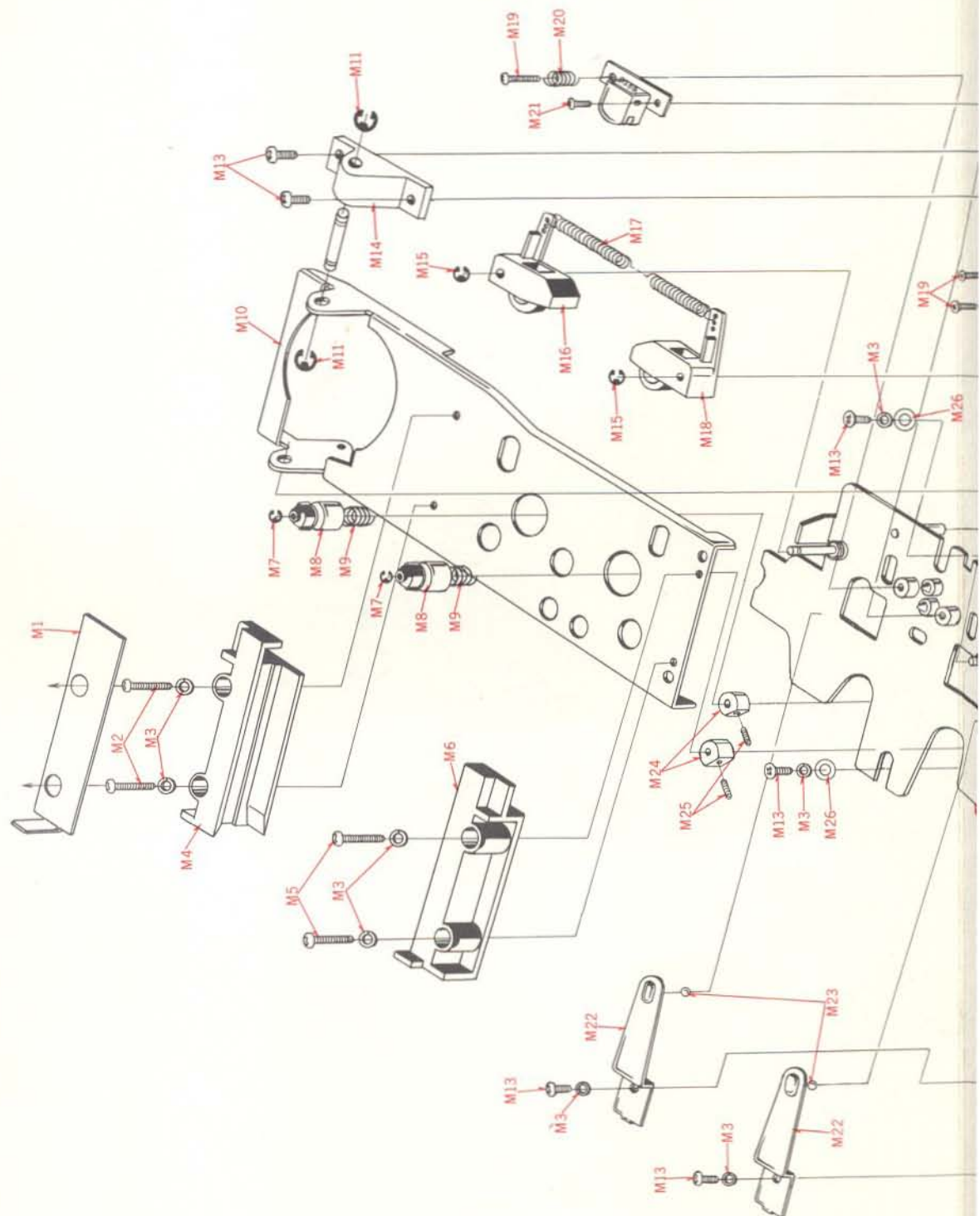
# COMPONENT PACKING

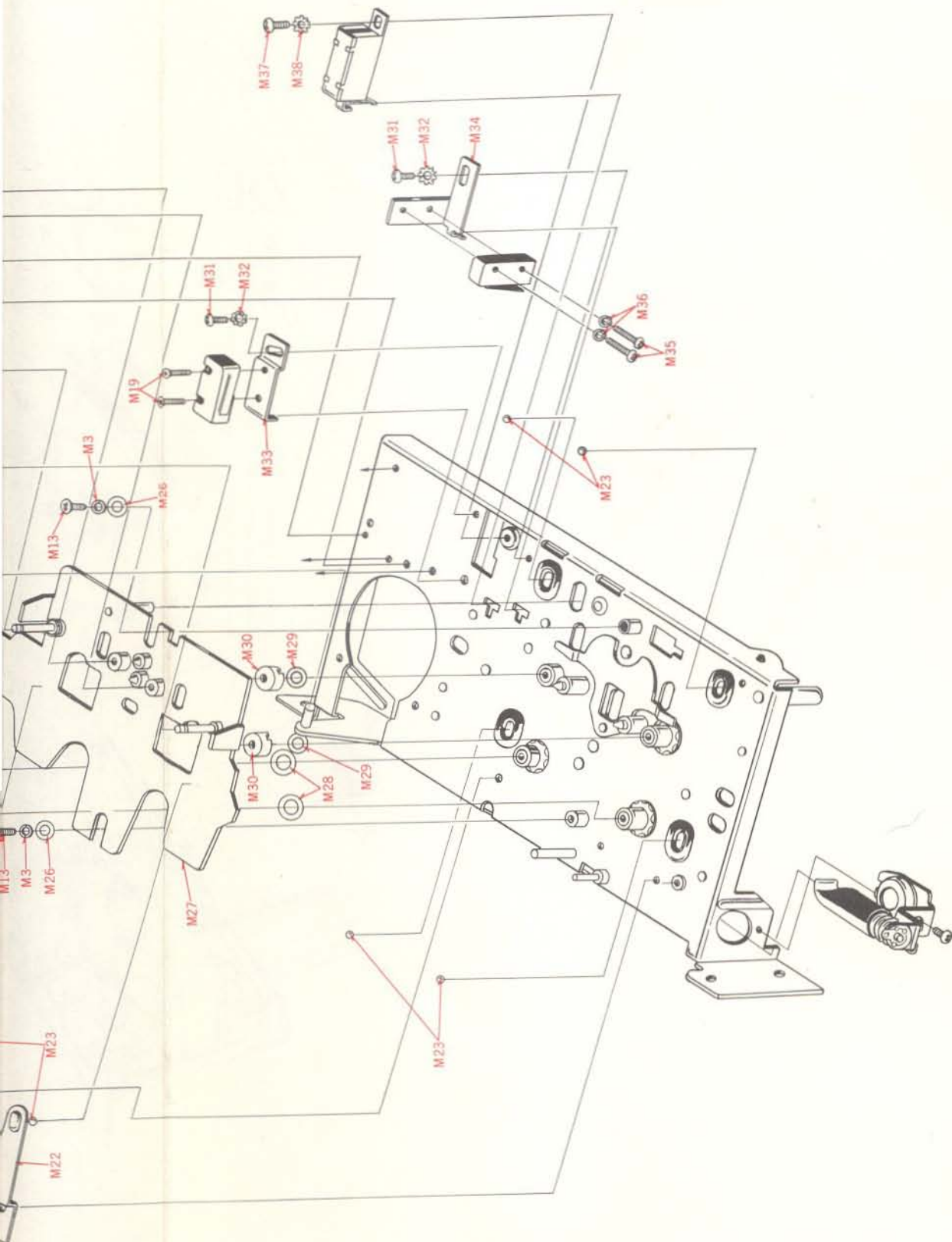


## PACKINGS

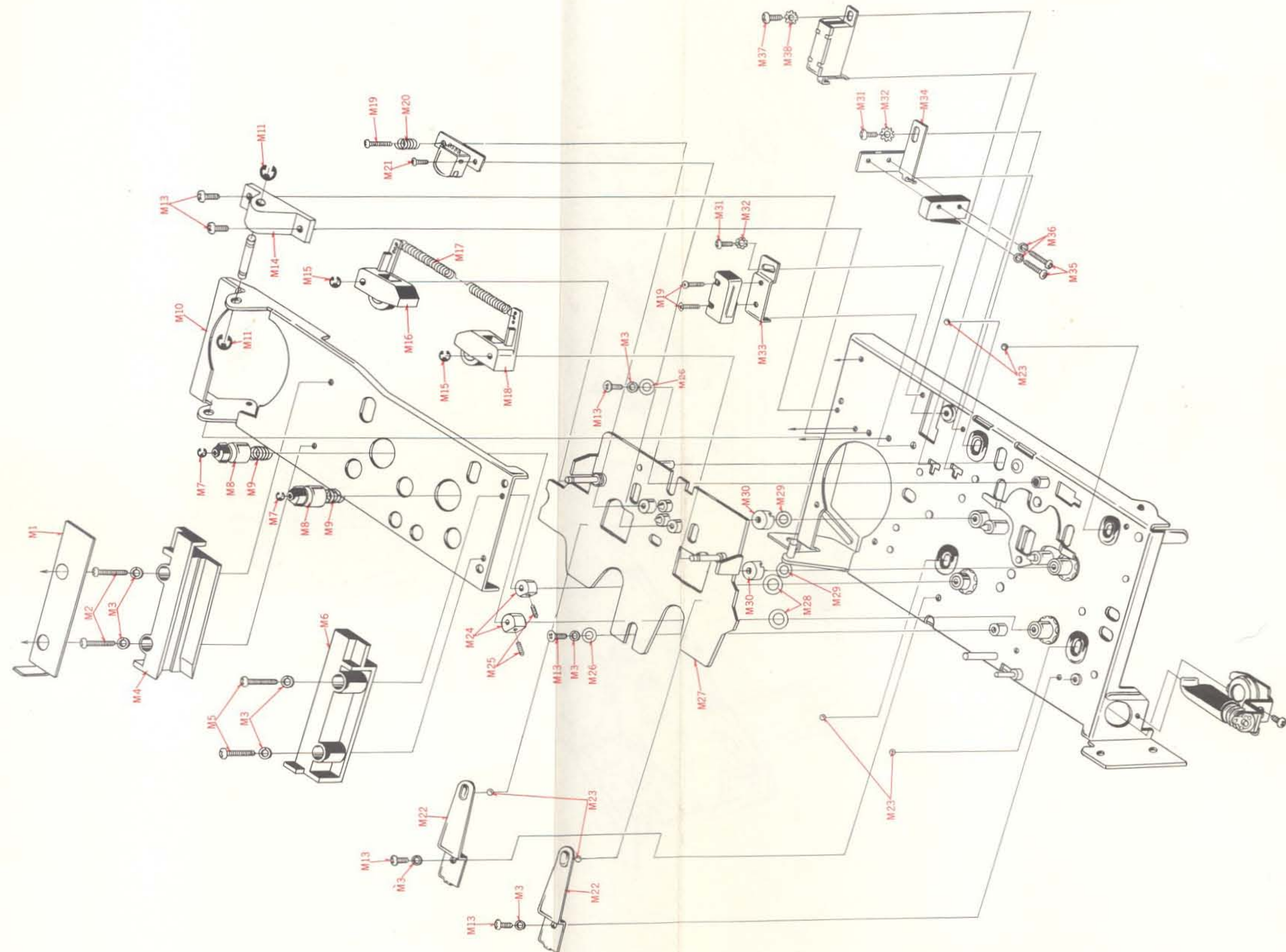
|          |                        |         |
|----------|------------------------|---------|
| P1.....  | Inside Carton          | QPN2717 |
| P2.....  | Cushion-A              | QPN2718 |
| P3.....  | Cushion-B              | QPN2719 |
| P4.....  | Cushion-C              | QPN2720 |
| P5.....  | Spacer-A               | QPN2780 |
| P6.....  | Spacer-B               | QPN2779 |
| P7.....  | Poly Sheet             | QPQ1057 |
| P8.....  | Accessory Bag          | QFV0047 |
| P9.....  | Outside Carton         | QPG2004 |
| P10..... | Pad for Outside Carton | QPG1989 |

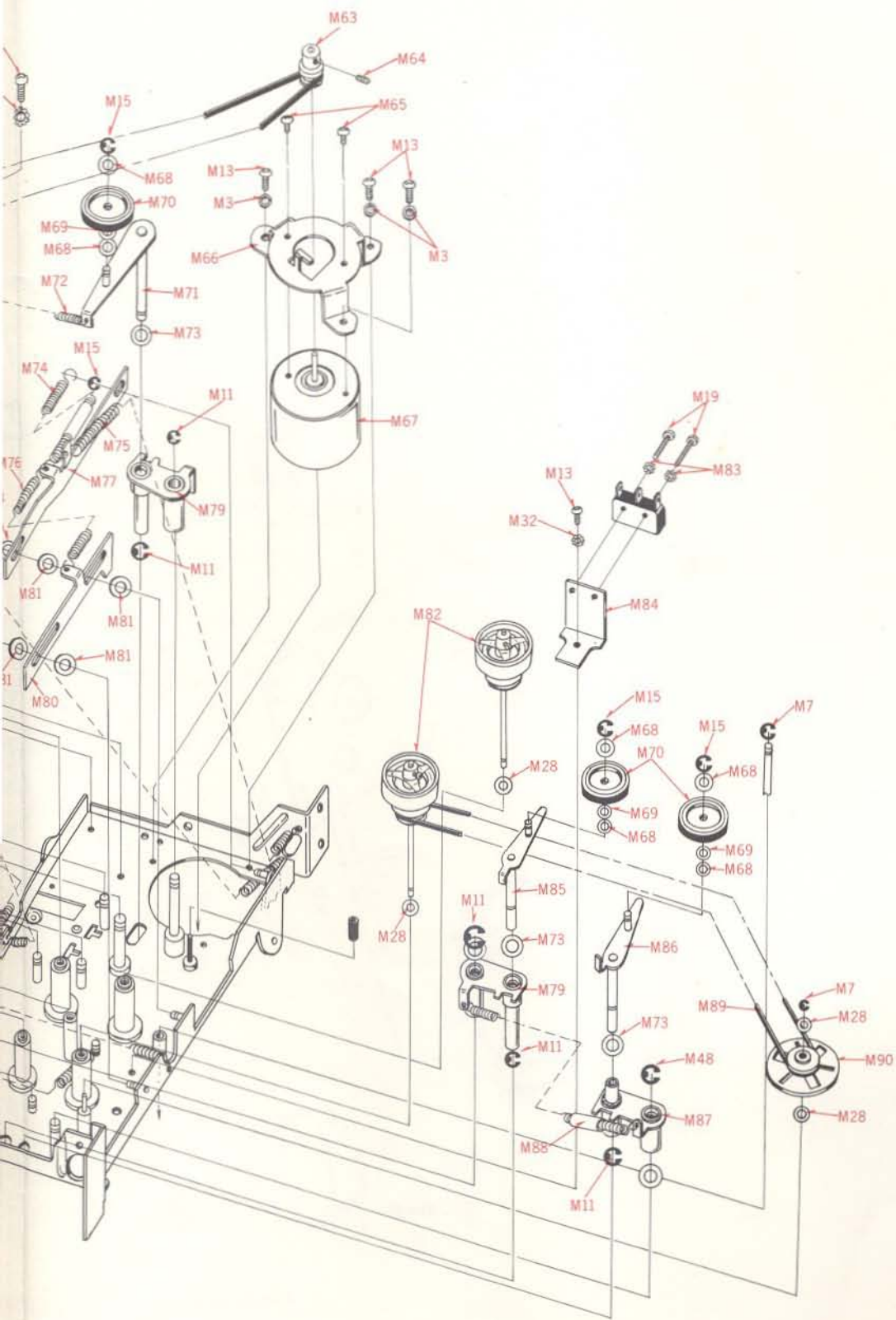
# EXPLODED VIEWS

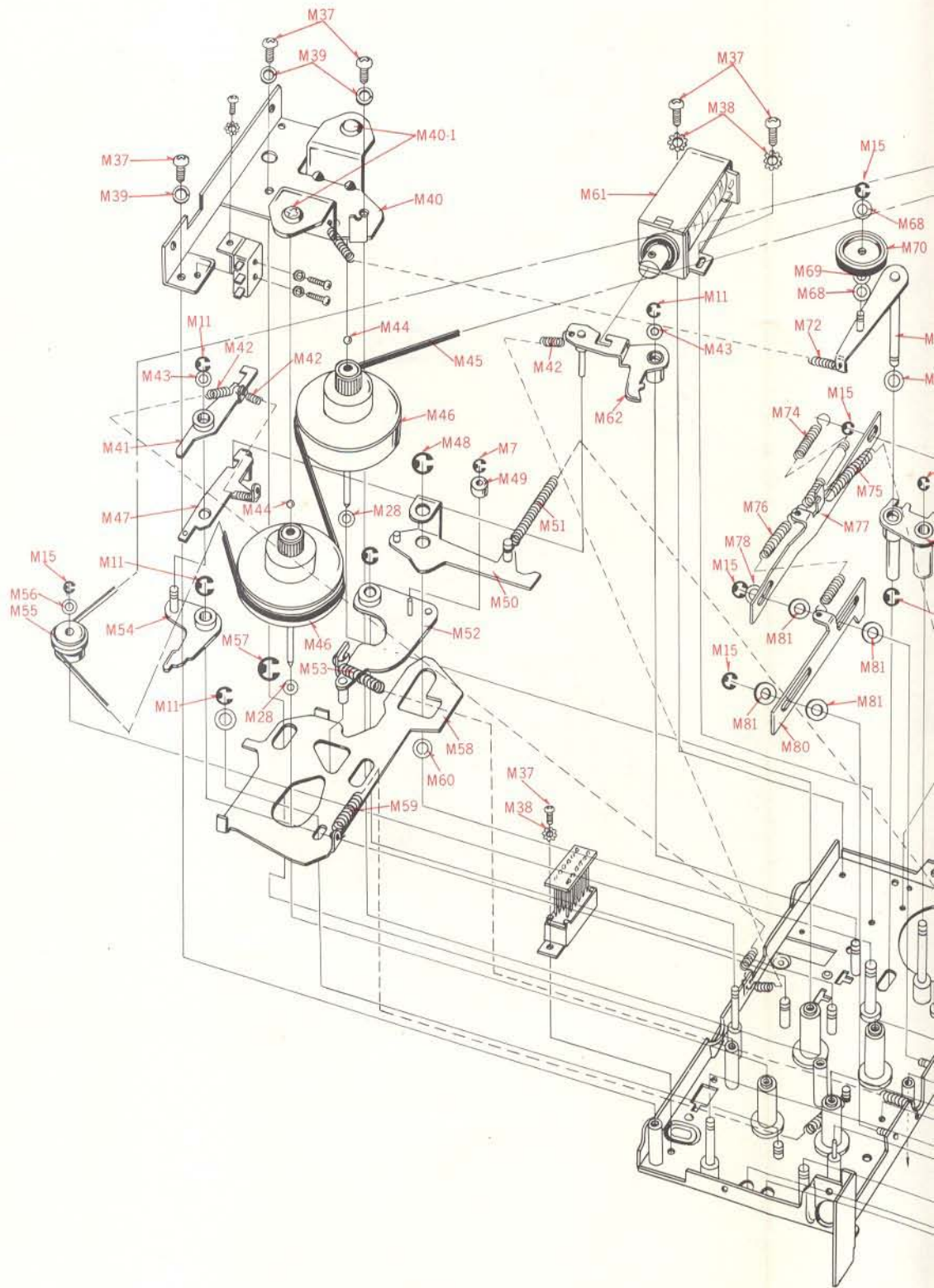


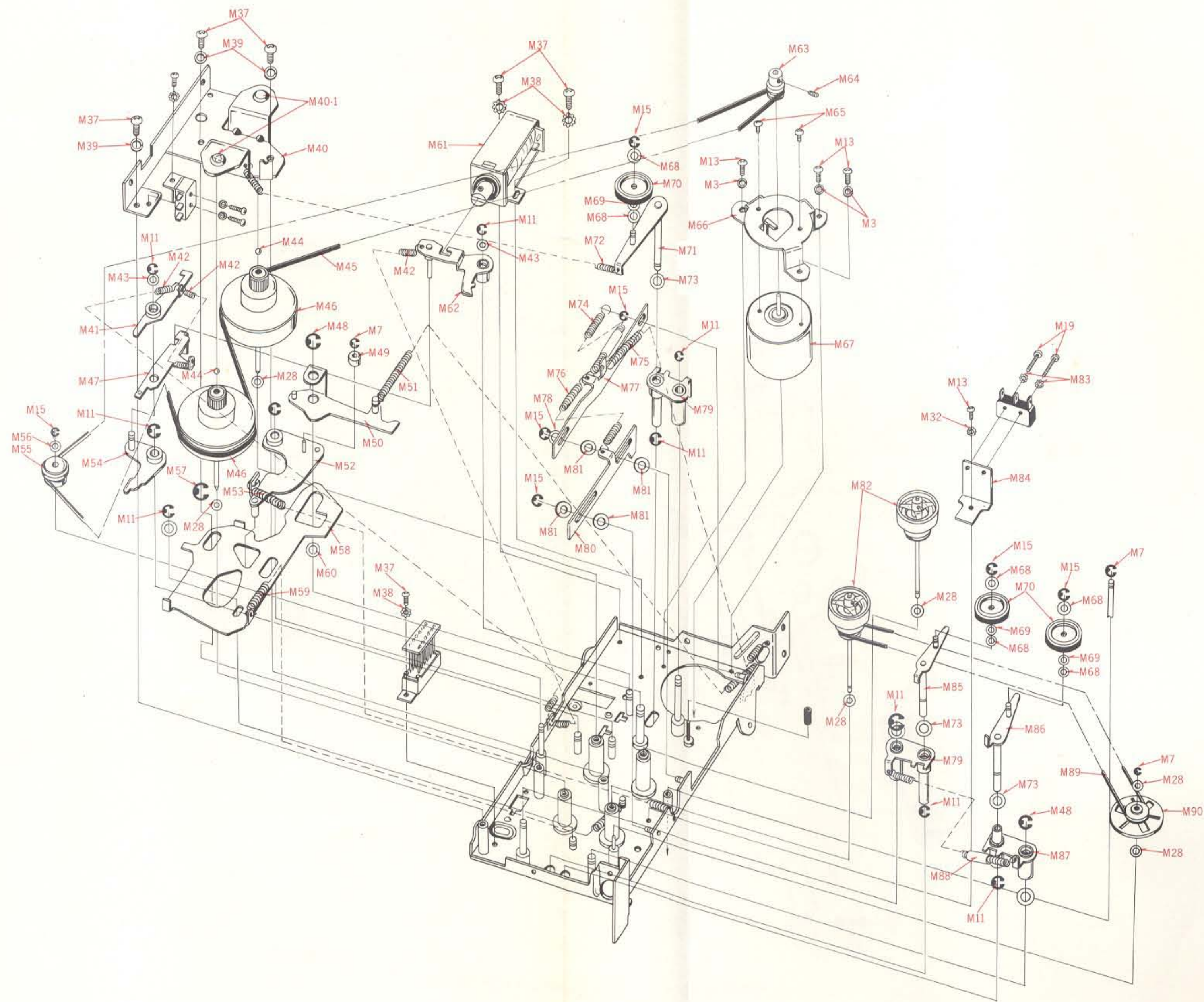


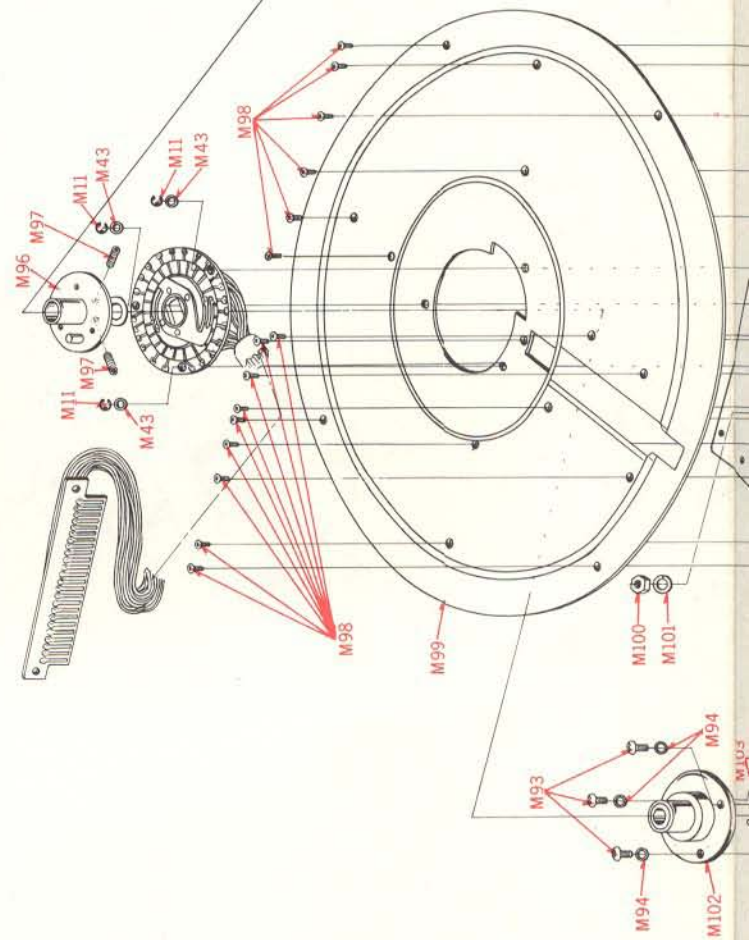
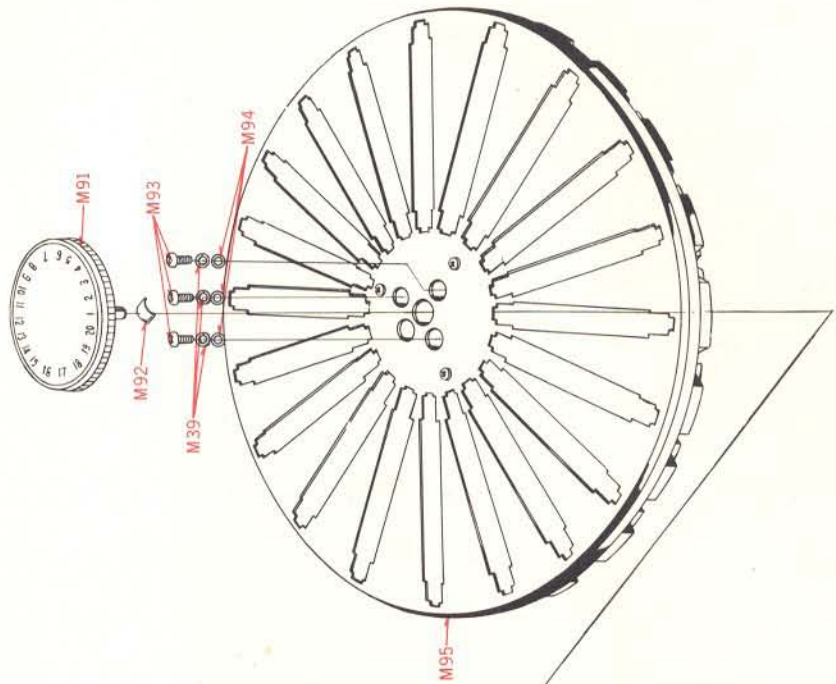
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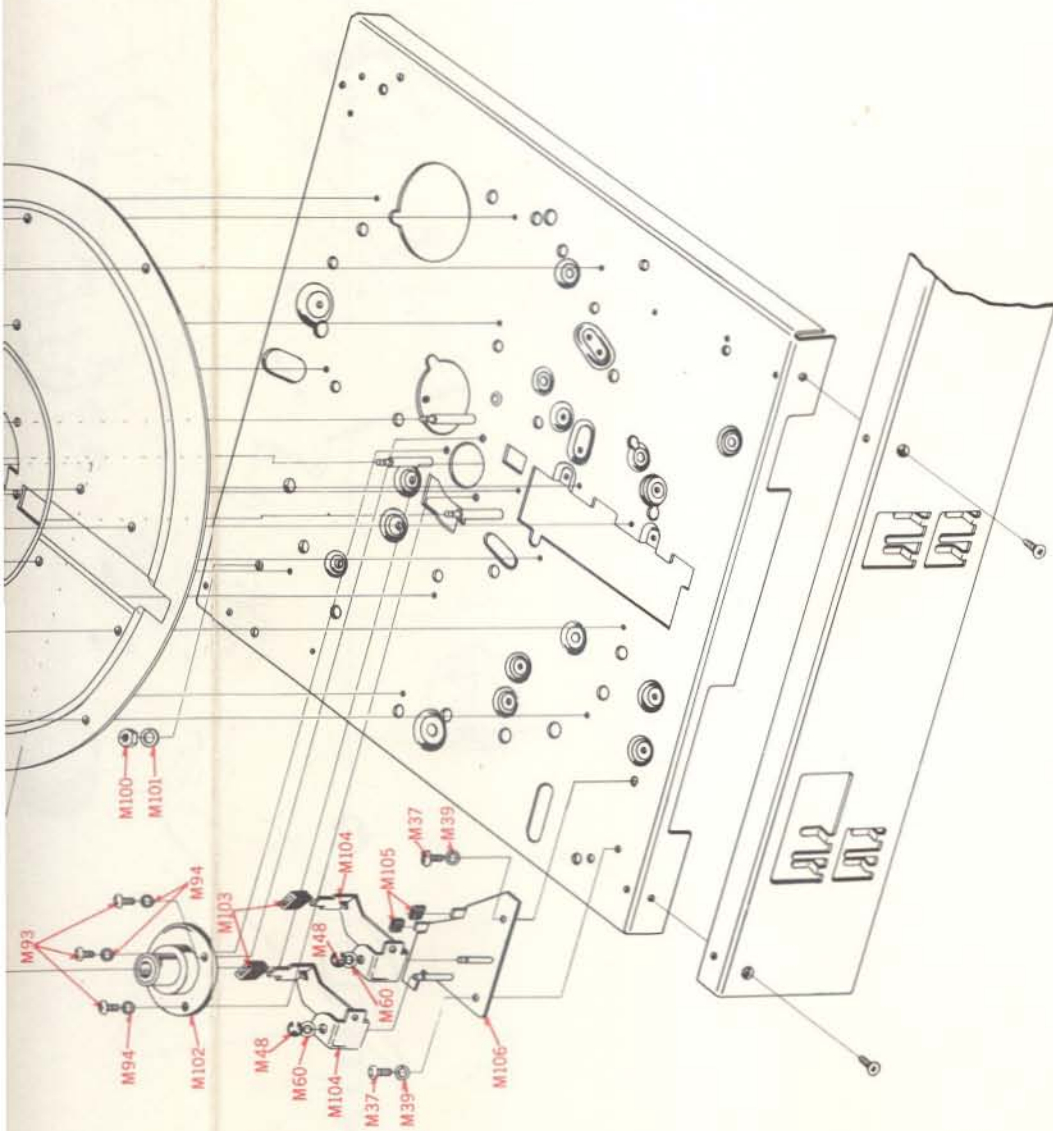


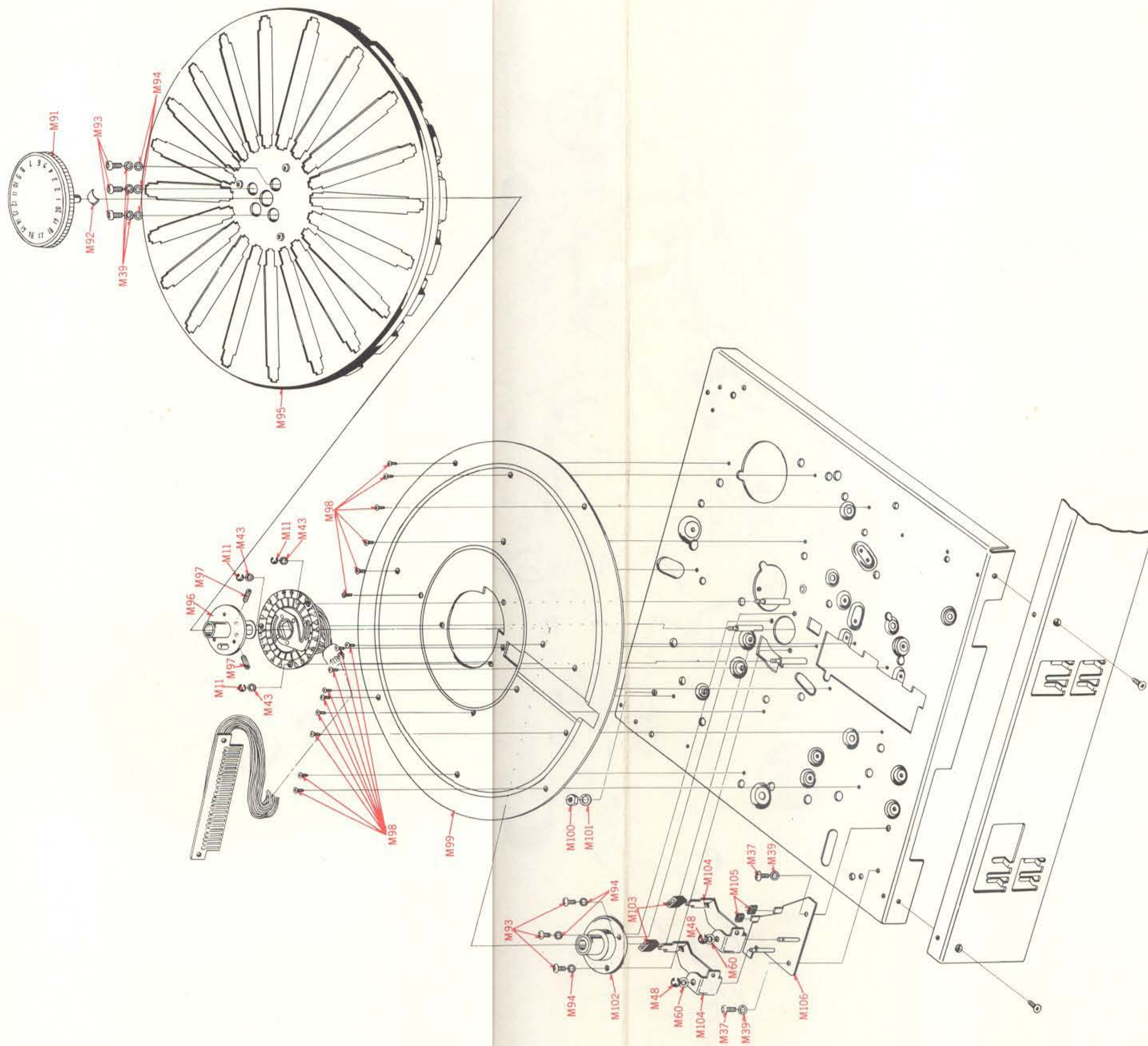


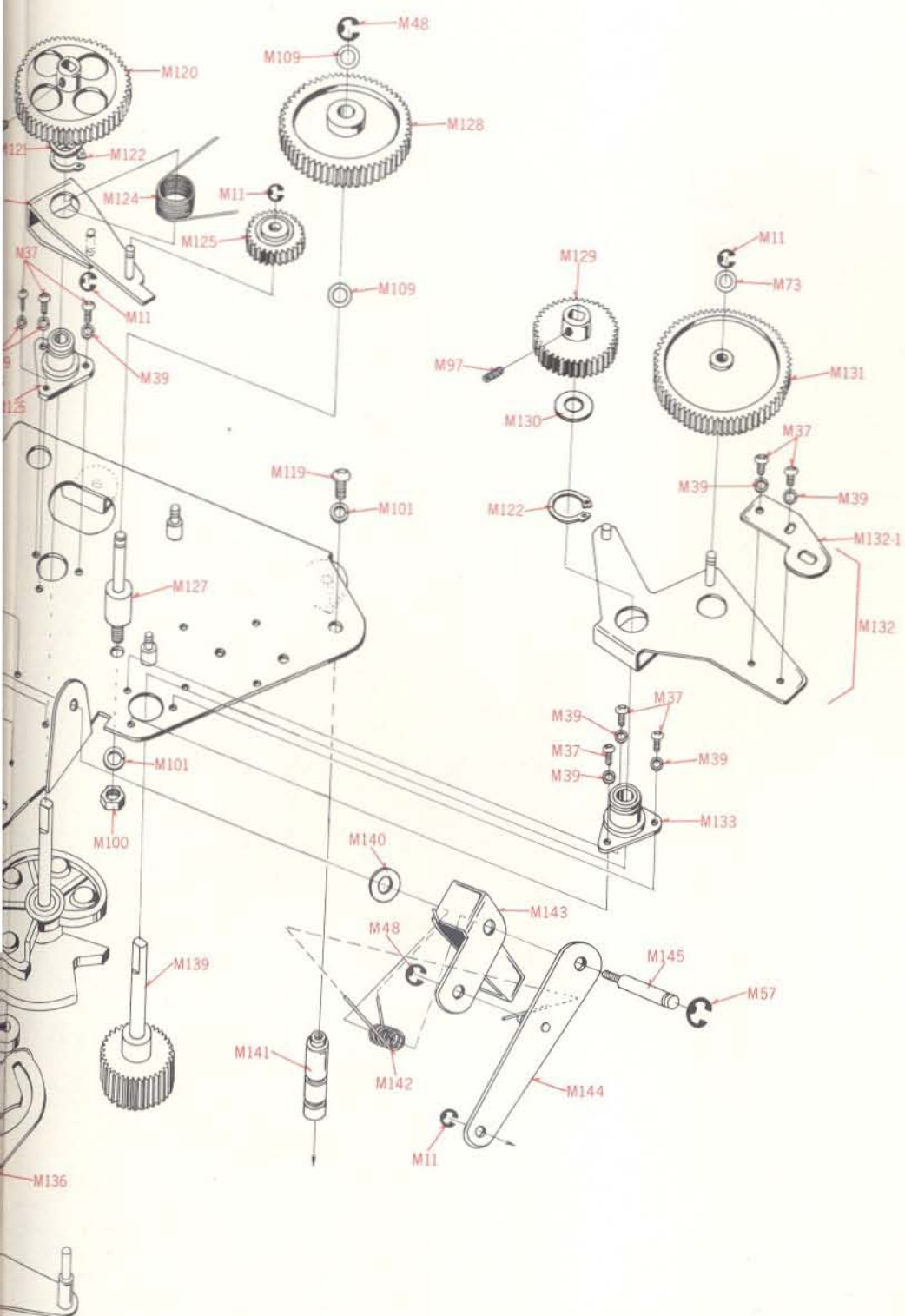


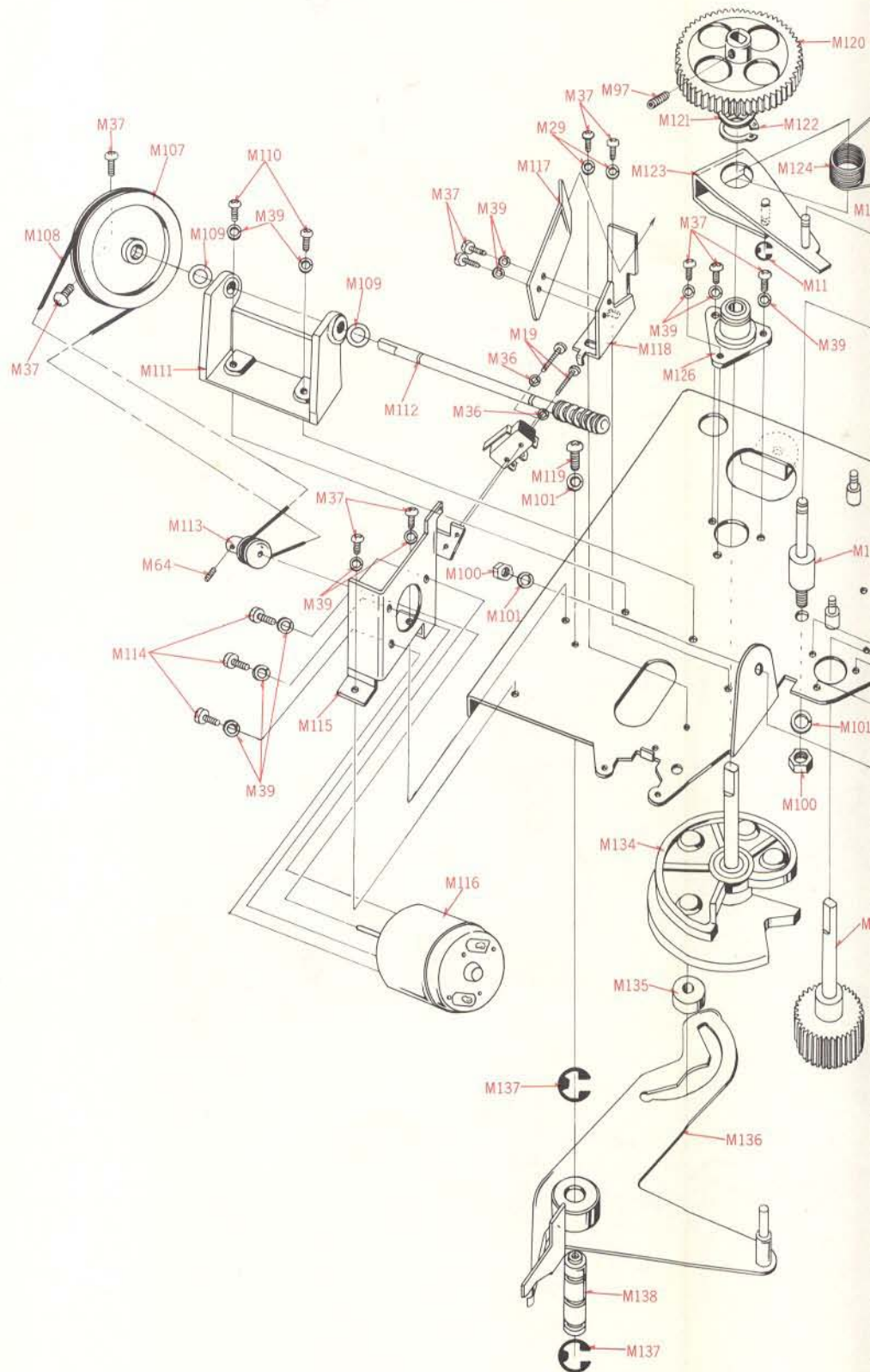


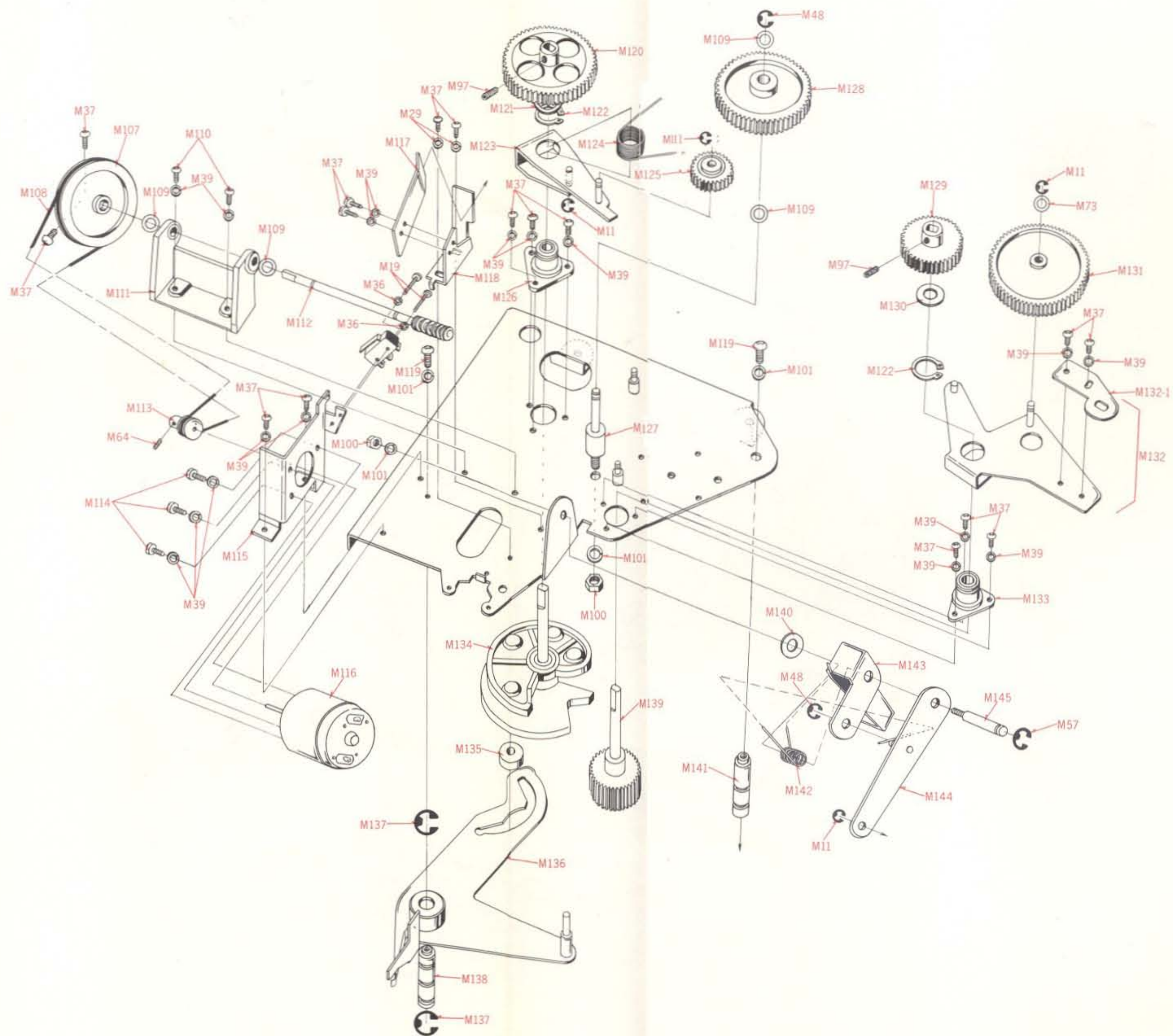


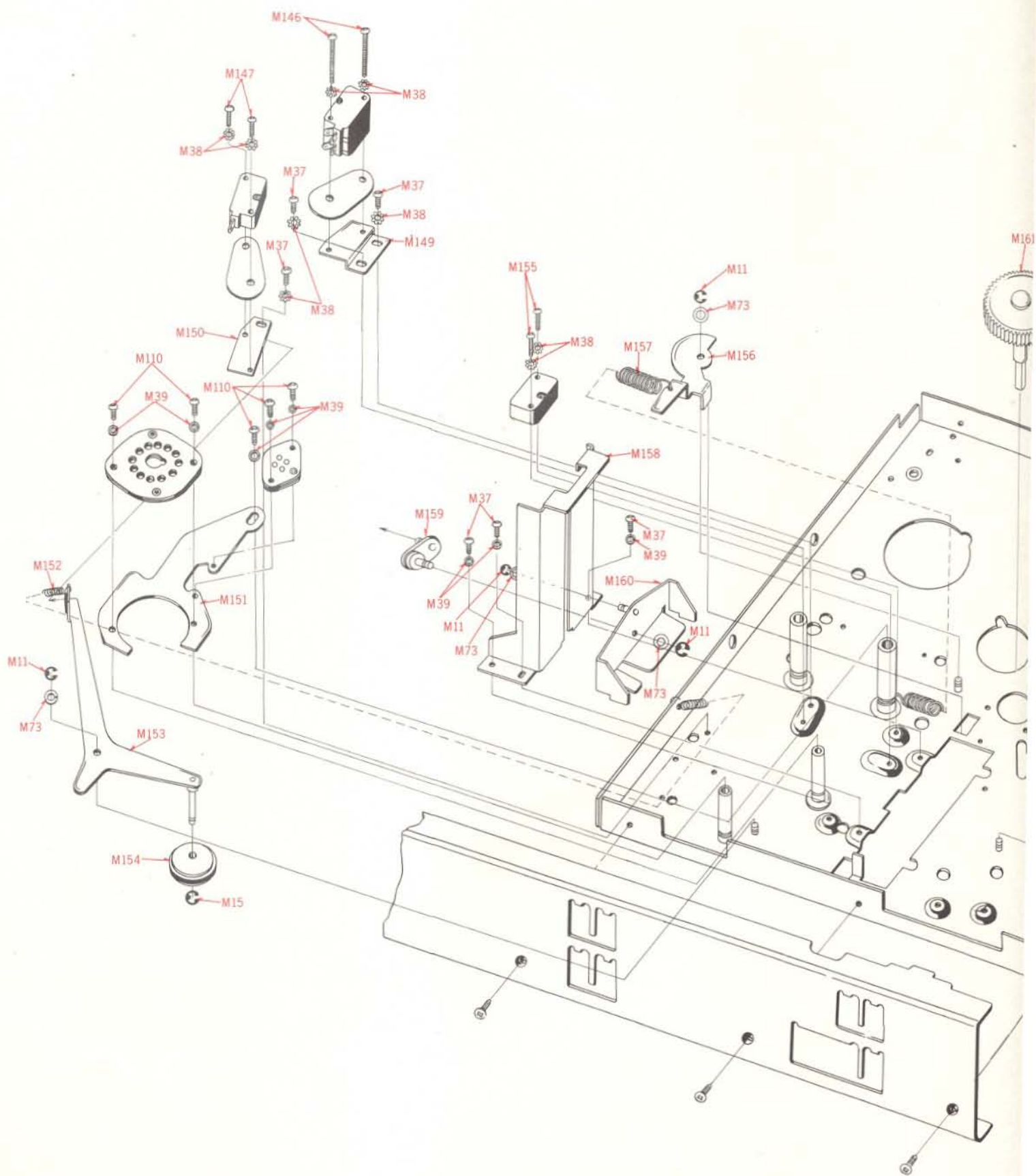


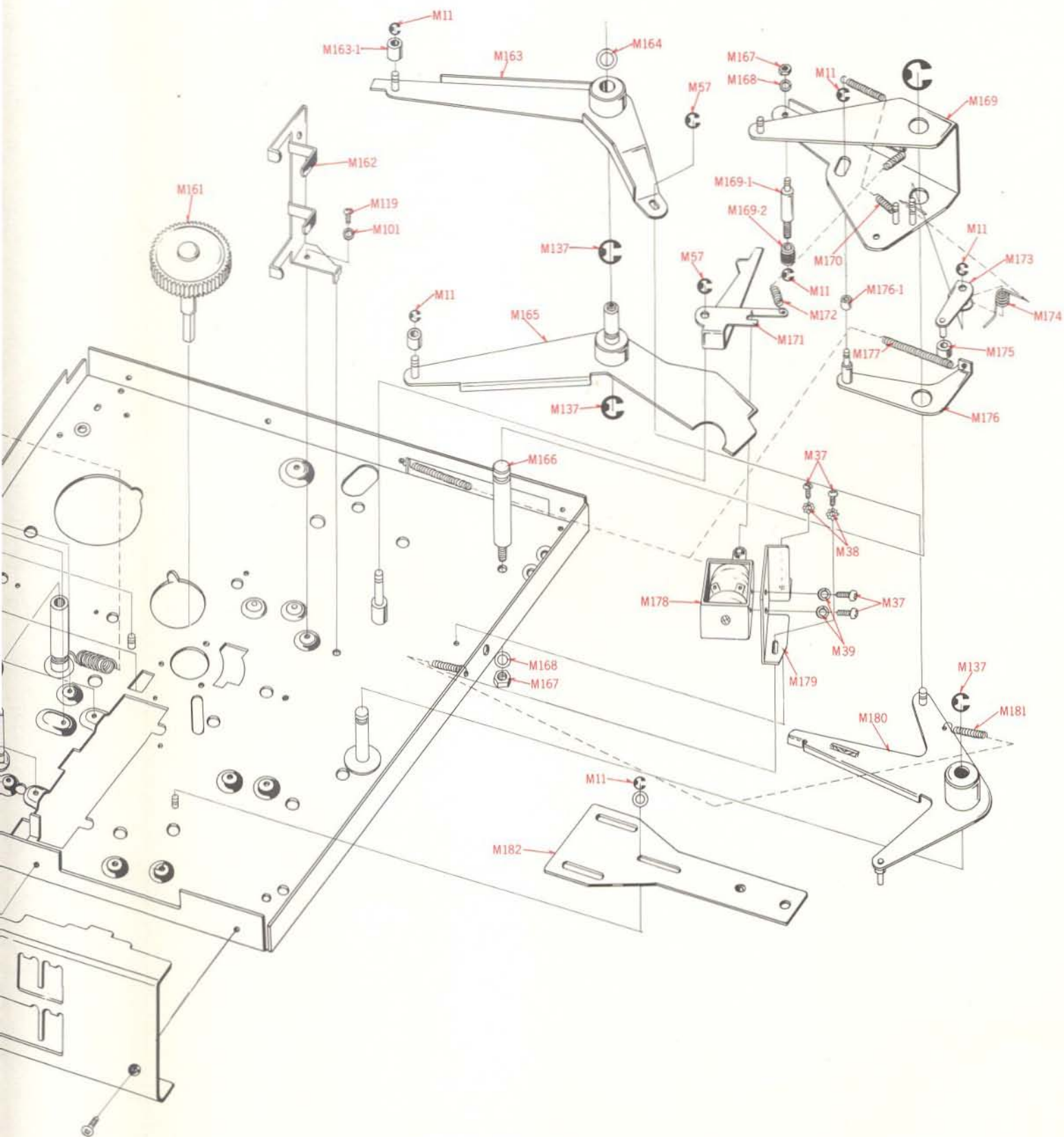


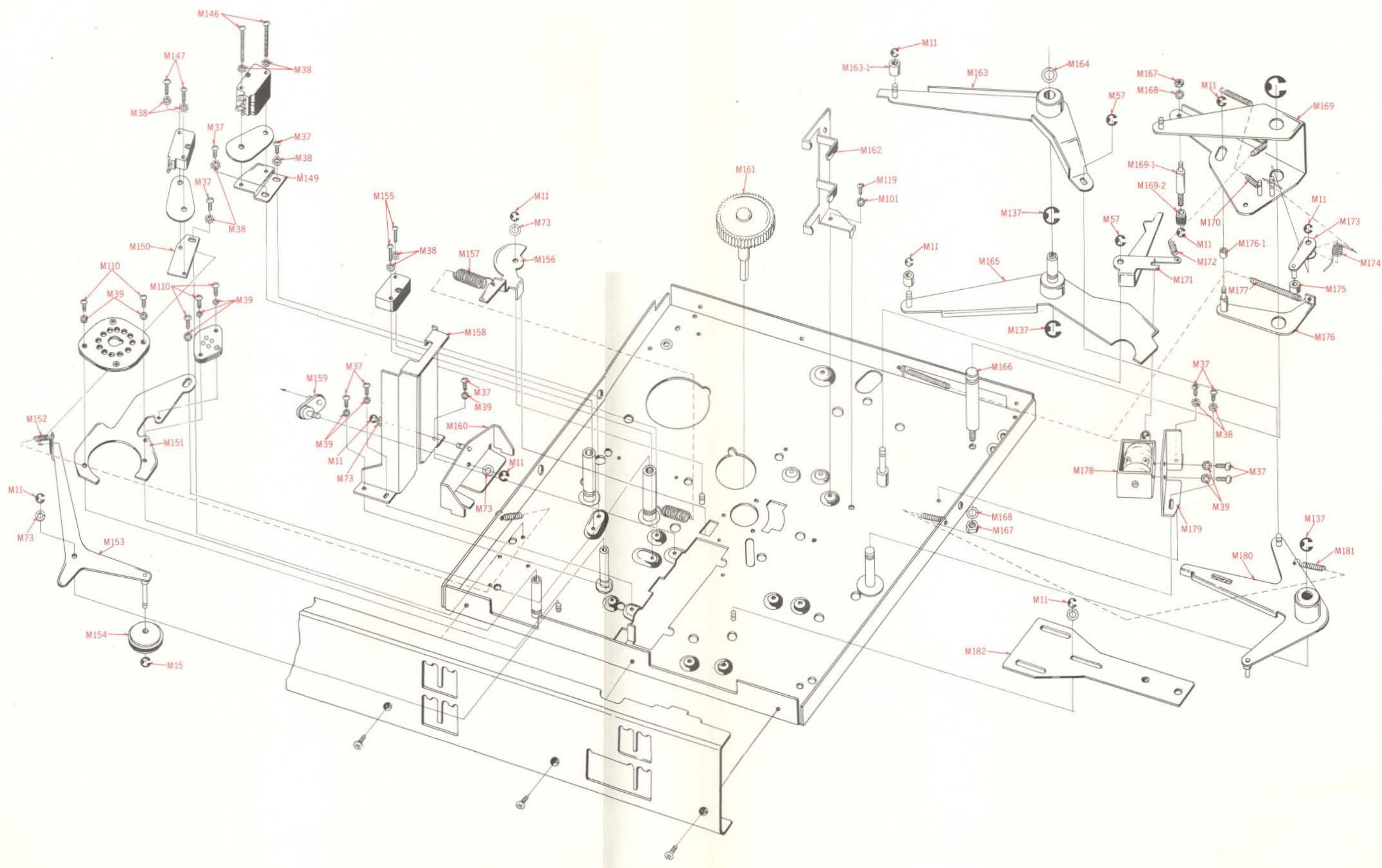










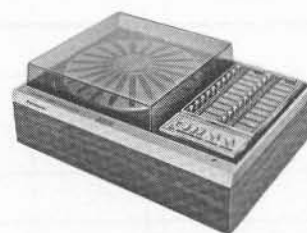


# REPLACEMENT PARTS LIST

## MODEL RS-296US (PANASONIC)

### ATTENTION:

1. Be sure to make your orders of Replacement Parts according to this List.
2. "★" indicates the New Parts.
3. "ISO" indicates the ISO Screw or Nut.



**RS-296US**

| Supplyable<br>or Not | Ref. No. | Description                    | Part No. | Per Set<br>(Pcs.) | Note     |
|----------------------|----------|--------------------------------|----------|-------------------|----------|
|                      |          | <b><u>MECHANICAL PARTS</u></b> |          |                   |          |
|                      | M1       | Cassette Retainer Angle        | QMA1948  | 1                 | ★        |
|                      | M2       | Screw $\oplus 2.6 \times 18$   | XSN26+18 | 2                 | COMMON   |
|                      | M3       | Spring Washer $2.6\phi$        | XWA26B   | 10                | "        |
|                      | M4       | Cassette Guide-R               | QBJ1988  | 1                 | ★        |
|                      | M5       | Screw $\oplus 2.6 \times 14$   | XSN26+14 | 2                 | COMMON   |
|                      |          |                                |          |                   |          |
|                      | M6       | Cassette Guide-L               | QBJ1987  | 1                 | ★        |
|                      | M7       | Stop Ring $E1.5\phi$           | XUC15FT  | 5                 | COMMON   |
|                      | M8       | Drive Shaft                    | QDP1441  | 2                 | ★        |
|                      | M9       | Drive Shaft Spring             | QBC1187  | 2                 | RS-272US |
|                      | M10      | Cassette Holder Unit           | QXH0145  | 1                 | ★        |
|                      |          |                                |          |                   |          |
|                      | M11      | Stop Ring $E3\phi$             | XUC3FT   | 27                | COMMON   |
|                      | M12      | Cassette Holder Shaft          | QMS2129  | 1                 | ★        |
|                      | M13      | Screw $\oplus 2.6 \times 6$    | XSN26+6  | 10                | COMMON   |
|                      | M14      | Holder Shaft Retainer          | QBJ1986  | 1                 | ★        |
|                      | M15      | Stop Ring $E2\phi$             | XUC2FT   | 10                | COMMON   |
|                      |          |                                |          |                   |          |
|                      | M16      | Pressure Roller Lever-R Unit   | QXL0602  | 1                 | ★        |
|                      | M17      | Pressure Roller Lever Spring   | QBT1596M | 1                 | ★        |
|                      | M18      | Pressure Roller Lever-L Unit   | QXL0601  | 1                 | ★        |
|                      | M19      | Screw $\oplus 2 \times 10$     | XSN2+10  | 7                 | COMMON   |
|                      | M20      | Head Adjust Spring             | QBC1186  | 1                 | RS-272US |
|                      |          |                                |          |                   |          |
|                      | M21      | Screw $\ominus 2 \times 6$     | XSN2-6   | 1                 | COMMON   |
|                      | M22      | Head Base Pressure Plate       | QBP1407  | 2                 | ★        |

| Supplyable<br>or Not | Ref. No. | Description                              | Part No. | Per Set<br>(Pcs.) | Note                                                                                    |
|----------------------|----------|------------------------------------------|----------|-------------------|-----------------------------------------------------------------------------------------|
|                      | M23      | Steel Ball 3/32"                         | QDK1002  | 4                 | COMMON                                                                                  |
|                      | M24      | Reel Shaft Bush                          | QMM1337  | 2                 | ★                                                                                       |
|                      | M25      | Screw $\ominus 2 \times 5$               | XXA2D5   | 2                 | COMMON                                                                                  |
|                      |          |                                          |          |                   |                                                                                         |
|                      | M26      | Flat Washer 2.6 $\phi$                   | XWG26FX  | 2                 | COMMON                                                                                  |
|                      | M27      | Head Base Plate Unit                     | QXK1219  | 1                 | ★                                                                                       |
|                      | M28      | Poly Slider                              | QBJA3003 | 8                 | ★                                                                                       |
|                      | M29      | Poly Slider                              | QBJ3221  | 2                 | RQ-409S, 409AS,<br>436S                                                                 |
|                      | M30      | Cap                                      | QBJ1985  | 2                 | ★                                                                                       |
|                      |          |                                          |          |                   |                                                                                         |
|                      | M31      | Screw $\oplus 2.6 \times 4$              | XSN26+4  | 2                 | COMMON                                                                                  |
|                      | M32      | Lock Washer 2.6 $\phi$                   | XWC26BF  | 3                 | "                                                                                       |
|                      | M33      | Micro Switch Table                       | QMH1204  | 1                 | ★                                                                                       |
|                      | M34      | Micro Switch Table                       | QMH1230  | 1                 | ★                                                                                       |
|                      | M35      | Screw $\oplus 2 \times 8$                | XSN2+8   | 2                 | COMMON                                                                                  |
|                      |          |                                          |          |                   |                                                                                         |
|                      | M36      | Spring Washer 2 $\phi$                   | XWA2B    | 4                 | COMMON                                                                                  |
|                      | M37      | Screw $\oplus 3 \times 6$                | XSN3+6S  | 36                | "  |
|                      | M38      | Lock Washer 3 $\phi$                     | XWC3BFX  | 15                | "                                                                                       |
|                      | M39      | Spring Washer 3 $\phi$                   | XWA3B    | 36                | "                                                                                       |
|                      | M40      | Thrust Plate Assembly                    | QXH0137  | 1                 | ★                                                                                       |
|                      |          |                                          |          |                   |                                                                                         |
|                      | M40-1    | Flywheel Supporter                       | QBJ1570  | 2                 | RS-241S, 246S                                                                           |
|                      | M41      | Change Detect Lever Unit                 | QXL0610  | 1                 | ★                                                                                       |
|                      | M42      | Change Lever Spring                      | QBT1598  | 3                 | ★                                                                                       |
|                      | M43      | Fiber Washer 4.2 $\times$ 8 $\times$ 0.5 | QBK7157  | 5                 | COMMON                                                                                  |
|                      | M44      | Steel Ball 3 $\phi$                      | QDK1006  | 2                 | "                                                                                       |
|                      |          |                                          |          |                   |                                                                                         |
|                      | M45      | Capstan Belt                             | QDB0155  | 1                 | ★                                                                                       |
|                      | M46      | Flywheel Unit                            | QXF0079  | 2                 | ★                                                                                       |
|                      | M47      | End Lever                                | QML2279  | 1                 | ★                                                                                       |
|                      | M48      | Stop Ring E4 $\phi$                      | XUC4FT   | 6                 | COMMON                                                                                  |
|                      | M49      | Roller                                   | QDP1438  | 1                 | ★                                                                                       |
|                      |          |                                          |          |                   |                                                                                         |
|                      | M50      | Operator Unit                            | QXL0608  | 1                 | ★                                                                                       |

| Supplyable<br>or Not | Ref. No. | Description              | Part No.  | Per Set<br>(Pcs.) |  | Note           |
|----------------------|----------|--------------------------|-----------|-------------------|--|----------------|
|                      | M51      | Operator Spring          | QBT1600M  | 1                 |  | ★              |
|                      | M52      | Play Lever Unit          | QXL0635   | 1                 |  | ★              |
|                      | M53      | Play Lever Spring        | QBT1599M  | 1                 |  | ★              |
|                      | M54      | Reverse Lock Plate Unit  | QXH0136   | 1                 |  | ★              |
|                      |          |                          |           |                   |  |                |
|                      | M55      | Connection Pulley        | QXP0381   | 1                 |  | ★              |
|                      | M56      | Poly Washer 3.2×6×0.25   | QBJ3290   | 1                 |  | RS-272US, 282S |
|                      | M57      | Stop Ring E5φ            | XUC5FT    | 4                 |  | COMMON         |
|                      | M58      | Slide Plate Unit         | QXH0135   | 1                 |  | ★              |
|                      | M59      | Slide Plate Spring       | QBT1601M  | 1                 |  | ★              |
|                      |          |                          |           |                   |  |                |
|                      | M60      | Fiber Washer 5.2×10×1    | QBK7174   | 3                 |  | COMMON         |
|                      | M61      | Plunger                  | QME0134   | 1                 |  | ★              |
|                      | M62      | Lock Lever-D Unit        | QXL0609   | 1                 |  | ★              |
|                      | M63      | Motor Pulley             | QDP1490   | 1                 |  | ★              |
|                      | M64      | Screw ⊖2.6×4             | XXA26D4FT | 2                 |  | COMMON         |
|                      |          |                          |           |                   |  |                |
|                      | M65      | Screw ⊕2.6×3             | XSN26+3   | 2                 |  | COMMON         |
|                      | M66      | Motor Angle              | QMH1200   | 1                 |  | ★              |
|                      | M67      | Motor                    | QDM1343   | 1                 |  | ★              |
|                      | M68      | Poly Washer 2.7×4×0.25   | QBJ3291   | 6                 |  | ★              |
|                      | M69      | Poly Washer 2.6×5×0.25   | QBJ3303   | 3                 |  | ★              |
|                      |          |                          |           |                   |  |                |
|                      | M70      | Idler                    | QXI0061   | 3                 |  | ★              |
|                      | M71      | Idler Arm-L Unit         | QXA0141A  | 1                 |  | ★              |
|                      | M72      | Idler Spring             | QBT1663M  | 1                 |  | ★              |
|                      | M73      | Fiber Washer 4.2×8×0.25  | QBK7168   | 8                 |  | COMMON         |
|                      | M74      | Cassette Holder Spring   | QXJ0074   | 1                 |  | ★              |
|                      |          |                          |           |                   |  |                |
|                      | M75      | Idler Arm Spring         | QBT1379T  | 1                 |  | RS-768US       |
|                      | M76      | Record Lock Lever Spring | QBT1278M  | 1                 |  | RS-280S        |
|                      | M77      | Up Lever                 | QML2282   | 1                 |  | ★              |
|                      | M78      | Fiber Washer 3.2×9×0.5   | QBK7124   | 1                 |  | COMMON         |
|                      | M79      | Idler Lever-L Unit       | QXL0603   | 2                 |  | ★              |
|                      |          |                          |           |                   |  |                |

| Supplyable<br>or Not | Ref. No. | Description               | Part No. | Per Set<br>(Pcs.) | Note                                                                                         |
|----------------------|----------|---------------------------|----------|-------------------|----------------------------------------------------------------------------------------------|
|                      | M80      | Lock Rod                  | QMR1223  | 1                 | ★                                                                                            |
|                      | M81      | Fiber Washer 3.2×9×0.25   | QBK7125  | 4                 | COMMON                                                                                       |
|                      | M82      | Friction Pulley Assembly  | QXP0391  | 2                 | ★                                                                                            |
|                      | M83      | Lock Washer 2φ            | XWC2BFK  | 2                 | COMMON                                                                                       |
|                      | M84      | Micro Switch Table        | QMH1202  | 1                 | ★                                                                                            |
|                      |          |                           |          |                   |                                                                                              |
|                      | M85      | Idler Arm-S-A Unit        | QXA0142  | 1                 | ★                                                                                            |
|                      | M86      | Idler Arm-S-B Unit        | QXA0143  | 1                 | ★                                                                                            |
|                      | M87      | Idler Lever-S Unit        | QXL0604  | 1                 | ★                                                                                            |
|                      | M88      | Record Switch Rod Spring  | QBT1434T | 1                 | RS-254S                                                                                      |
|                      | M89      | End Detect Belt           | QDB0156  | 1                 | ★                                                                                            |
|                      |          |                           |          |                   |                                                                                              |
|                      | M90      | End Detect Disc           | QDP1442  | 1                 | ★                                                                                            |
|                      | M91      | Carousel Cap              | QYK0055  | 1                 | ★                                                                                            |
|                      | M92      | Flat Spring               | QBP1416  | 1                 | ★                                                                                            |
|                      | M93      | Screw $\oplus 3 \times 8$ | XSN3+8S  | 6                 | COMMON   |
|                      | M94      | Flat Washer 3φ            | XWG3     | 6                 | ”                                                                                            |
|                      |          |                           |          |                   |                                                                                              |
|                      | M95      | Carousel Assembly         | QYP0360  | 1                 | ★                                                                                            |
|                      | M96      | Center Shaft Flange Unit  | QXQ0072  | 1                 | ★                                                                                            |
|                      | M97      | Screw 4×6                 | XXE4D6S  | 4                 | COMMON  |
|                      | M98      | Screw $\oplus 2 \times 3$ | XSS2+4BC | 15                | ”                                                                                            |
|                      | M99      | Ornament Plate            | QGK2276  | 1                 | ★                                                                                            |
|                      |          |                           |          |                   |                                                                                              |
|                      | M100     | Nut 4φ                    | XNG4EFXS | 3                 | COMMON  |
|                      | M101     | Spring Washer 4φ          | XWA4BFX  | 6                 | ”                                                                                            |
|                      | M102     | Center Metal Boss Unit    | QXQ0053  | 1                 | ★                                                                                            |
|                      | M103     | Brake Rubber              | QBG1388  | 2                 | ★                                                                                            |
|                      | M104     | Brake Arm                 | QML2477  | 2                 | ★                                                                                            |
|                      |          |                           |          |                   |                                                                                              |
|                      | M105     | Cushion Rubber            | QBG1389  | 2                 | ★                                                                                            |
|                      | M106     | Brake Holder Unit         | QXH0155  | 1                 | ★                                                                                            |
|                      | M107     | Deceleration Pulley       | QDP1451S | 1                 | ★       |
|                      | M108     | Drive Belt                | QDB0157  | 1                 | ★                                                                                            |
|                      | M109     | Poly-Washer 5.2×10×0.5    | QBJ3294  | 4                 | ★                                                                                            |

| Supplyable<br>or Not | Ref. No. | Description                               | Part No. | Per Set<br>(Pcs.) |  | Note         |
|----------------------|----------|-------------------------------------------|----------|-------------------|--|--------------|
|                      | M110     | Screw $\oplus 3 \times 10$                | XSN3+10S | 6                 |  | COMMON (ISO) |
|                      | M111     | Worm Retainer                             | QXQ0050  | 1                 |  | ★            |
|                      | M112     | Worm Gear Unit                            | QXS1017  | 1                 |  | ★            |
|                      | M113     | Motor Pulley                              | QDP1490  | 1                 |  | ★            |
|                      | M114     | Screw $\oplus 3 \times 4$                 | XSN3+4S  | 3                 |  | COMMON (ISO) |
|                      |          |                                           |          |                   |  |              |
|                      | M115     | Motor Angle-C                             | QMA1861  | 1                 |  | ★            |
|                      | M116     | Motor                                     | QDM1344  | 1                 |  | ★            |
|                      | M117     | Worm Shaft Pressure Spring                | QBP1471  | 1                 |  | ★            |
|                      | M118     | Flat Spring Angle                         | QMA1874S | 1                 |  | ★ (ISO)      |
|                      | M119     | Screw $\oplus 4 \times 6$                 | XSN4+6S  | 3                 |  | COMMON (ISO) |
|                      |          |                                           |          |                   |  |              |
|                      | M120     | Cam Gear                                  | QDG1044S | 1                 |  | ★ (ISO)      |
|                      | M121     | Fiber Washer $6.2 \times 8.2 \times 0.25$ | QBK7046  | 1                 |  | COMMON       |
|                      | M122     | Stop Ring C13 $\phi$                      | XUR13FT  | 2                 |  | ★            |
|                      | M123     | Clutch Lever-2 Unit                       | QXL0592  | 1                 |  | ★            |
|                      | M124     | Clutch Lever Spring                       | QBN1257  | 1                 |  | ★            |
|                      |          |                                           |          |                   |  |              |
|                      | M125     | Idler Gear-2                              | QDG1041  | 1                 |  | ★            |
|                      | M126     | Cam Metal Boss Unit                       | QXQ0052  | 1                 |  | ★            |
|                      | M127     | Drive Gear Shaft                          | QMS2172  | 1                 |  | ★            |
|                      | M128     | Drive Gear                                | QDG1042  | 1                 |  | ★            |
|                      | M129     | Follow Gear-2                             | QDG1039S | 1                 |  | ★ (ISO)      |
|                      |          |                                           |          |                   |  |              |
|                      | M130     | Fiber Washer $6.2 \times 8.2 \times 0.25$ | QBK7046  | 1                 |  | COMMON       |
|                      | M131     | Idler Gear                                | QDG1040  | 1                 |  | ★            |
|                      | M132     | Clutch Lever-1 Assembly                   | QXL0591  | 1                 |  | ★            |
|                      | M132-1   | Clutch Lever Adjust Plate                 | QML2400  | 1                 |  | ★            |
|                      | M133     | Follow Gear Metal Boss Unit               | QXQ0051  | 1                 |  | ★            |
|                      |          |                                           |          |                   |  |              |
|                      | M134     | Cam Unit                                  | QBJ2214  | 1                 |  | ★            |
|                      | M135     | Cam Lever Pin Collar                      | QMM1299  | 1                 |  | ★            |
|                      | M136     | Drive Lever Unit                          | QXL0595  | 1                 |  | ★            |
|                      | M137     | Stop Ring E7 $\phi$                       | XUC7FT   | 5                 |  | COMMON       |
|                      | M138     | Drive Lever Shaft                         | QMS2150S | 1                 |  | ★ (ISO)      |

| Supplyable<br>or Not | Ref. No. | Description                | Part No. | Per Set<br>(Pcs.) | Note                                                                                         |
|----------------------|----------|----------------------------|----------|-------------------|----------------------------------------------------------------------------------------------|
|                      | M139     | Follow Gear-1              | QDG1049  | 1                 | ★                                                                                            |
|                      | M140     | Fiber Washer 6.2×11×1      | QBK7130  | 1                 | COMMON                                                                                       |
|                      | M141     | Charge Lever Shaft         | QMS2161S | 1                 | ★         |
|                      | M142     | Elevator Spring            | QBN1256  | 1                 | ★                                                                                            |
|                      | M143     | L-type Lever               | QML2305  | 1                 | ★                                                                                            |
|                      |          |                            |          |                   |                                                                                              |
|                      | M144     | Elevator Lever Unit        | QXH0132  | 1                 | ★                                                                                            |
|                      | M145     | L-type Lever Shaft         | QMS2151S | 1                 | ★         |
|                      | M146     | Screw $\oplus 3 \times 25$ | XSN3+25S | 2                 | COMMON    |
|                      | M147     | Screw $\oplus 3 \times 12$ | XSN3+12S | 2                 | "         |
|                      | M149     | Micro Switch Table         | QMA1766S | 1                 | ★         |
|                      |          |                            |          |                   |                                                                                              |
|                      | M150     | Micro Switch Table         | QMH1133S | 1                 | ★         |
|                      | M151     | Socket Plate               | QMH1066  | 1                 | ★                                                                                            |
|                      | M152     | Detect Lever Spring        | QBT1440  | 1                 | RS-241S, 246S                                                                                |
|                      | M153     | Detect Lever Unit          | QXL0643  | 1                 | ★                                                                                            |
|                      | M154     | Detect Lever Roller        | QXP0390  | 1                 | ★                                                                                            |
|                      |          |                            |          |                   |                                                                                              |
|                      | M155     | Screw $\oplus 3 \times 14$ | XSN3+14S | 2                 | COMMON  |
|                      | M156     | Switch Lever               | QML2306  | 1                 | ★                                                                                            |
|                      | M157     | Switch Lever Spring        | QBT1594M | 1                 | ★                                                                                            |
|                      | M158     | Elevator Guide             | QMA1763  | 1                 | ★                                                                                            |
|                      | M159     | Connection Plate Unit      | QXH0133  | 1                 | ★                                                                                            |
|                      |          |                            |          |                   |                                                                                              |
|                      | M160     | Elevator Unit              | QXH0132  | 1                 | ★                                                                                            |
|                      | M161     | Center Gear Unit           | QDG1043  | 1                 | ★                                                                                            |
|                      | M162     | Wire Holder                | QMH1226  | 1                 | ★                                                                                            |
|                      | M163     | Actuating Lever Assembly   | QXL0594  | 1                 | ★                                                                                            |
|                      | M163-1   | Roller                     | QDP1458  | 1                 | ★                                                                                            |
|                      |          |                            |          |                   |                                                                                              |
|                      | M164     | Fiber Washer 8.2×12×0.5    | QBK7049  | 1                 | COMMON                                                                                       |
|                      | M165     | Charge Lever Assembly      | QXL0593  | 1                 | ★                                                                                            |
|                      | M166     | Detention Lever Shaft      | QMS2149S | 1                 | ★       |
|                      | M167     | Nut 5φ                     | XNG5EFXS | 2                 | COMMON  |
|                      | M168     | Spring Washer 5φ           | XWA5BFX  | 2                 | "                                                                                            |

| Supplyable<br>or Not | Ref. No.                                | Description                  | Part No.   | Per Set<br>(Pcs.) | Note                                                                                  |
|----------------------|-----------------------------------------|------------------------------|------------|-------------------|---------------------------------------------------------------------------------------|
|                      | M169                                    | Detention Lever Assembly     | QXL0598    | 1                 | ★                                                                                     |
|                      | M169-1                                  | Detention Roller Shaft       | QMS2159S   | 1                 | ★  |
|                      | M169-2                                  | Detention Roller             | QDP1449    | 1                 | ★                                                                                     |
|                      | M170                                    | Record Switch Return Spring  | QBT1432    | 1                 | RS-803US                                                                              |
|                      | M171                                    | Ratch Lever                  | QML2300    | 1                 | ★                                                                                     |
|                      |                                         |                              |            |                   |                                                                                       |
|                      | M172                                    | Ratch Lever Spring           | QBT1247M   | 1                 | RS-790S                                                                               |
|                      | M173                                    | Roller Lever Unit            | QXL0638    | 1                 | ★                                                                                     |
|                      | M174                                    | Roller Lever Spring          | QBN1274    | 1                 | ★                                                                                     |
|                      | M175                                    | Roller                       | QDP1448    | 1                 | ★                                                                                     |
|                      | M176                                    | Lock Lever-C Assembly        | QXL0597    | 1                 | ★                                                                                     |
|                      |                                         |                              |            |                   |                                                                                       |
|                      | M176-1                                  | Lock Lever Pin Roller        | QDP1447    | 1                 | ★                                                                                     |
|                      | M177                                    | Lock Lever Spring            | QDP1643M   | 1                 | ★                                                                                     |
|                      | M178                                    | Plunger                      | QME0136S   | 1                 | ★  |
|                      | M179                                    | Plunger Angle                | QMA1765    | 1                 | ★                                                                                     |
|                      | M180                                    | Deck Drive Lever Unit        | QXL0599    | 1                 | ★                                                                                     |
|                      |                                         |                              |            |                   |                                                                                       |
|                      | M181                                    | Brake Rod Spring             | QBT1192    | 1                 | RQ-706S                                                                               |
|                      | M182                                    | Shutter                      | QMF1534    | 1                 | ★                                                                                     |
|                      |                                         |                              |            |                   |                                                                                       |
|                      |                                         | <b><u>RESISTORS</u></b>      |            |                   |                                                                                       |
|                      | R1, 2                                   | Carbon Resistor 150Ω 1/4 W   | ERD14TJ151 | 2                 |                                                                                       |
|                      | R3, 4, 7, 8, 29,<br>30                  | " 39 KΩ 1/4 W                | ERD14TJ393 | 6                 |                                                                                       |
|                      | R5, 6, 21, 22, 43,<br>44, 45, 46, 152   | " 1 KΩ 1/4 W                 | ERD14TJ102 | 9                 |                                                                                       |
|                      | R9, 10, 138                             | " 56 KΩ 1/4 W                | ERD14TJ563 | 3                 |                                                                                       |
|                      | R11, 12                                 | " 120 KΩ 1/4 W               | ERD14TJ124 | 2                 |                                                                                       |
|                      |                                         |                              |            |                   |                                                                                       |
|                      | R13, 14, 27, 28, 33, 34, 39, 40, 47, 48 |                              |            |                   |                                                                                       |
|                      |                                         | Carbon Resistor 2.2 KΩ 1/4 W | ERD14TJ222 | 10                |                                                                                       |
|                      | R15, 16                                 | " 220Ω 1/4 W                 | ERD14TJ221 | 2                 |                                                                                       |
|                      | R17, 18, 23, 24                         | " 3.9 KΩ 1/4 W               | ERD14TJ392 | 4                 |                                                                                       |
|                      | R19, 20                                 | " 220 KΩ 1/4 W               | ERD14TJ224 | 2                 |                                                                                       |
|                      | R25, 26                                 | " 180 KΩ 1/4 W               | ERD14TJ184 | 2                 |                                                                                       |
|                      |                                         |                              |            |                   |                                                                                       |

| Supplyable<br>or Not | Ref. No.                      | Description                                                 | Part No.   | Per Set<br>(Pcs.) |  | Note |
|----------------------|-------------------------------|-------------------------------------------------------------|------------|-------------------|--|------|
|                      | R31, 32                       | Carbon Resistor 680 $\Omega$ 1/4 W                          | ERD14TJ681 | 2                 |  |      |
|                      | R35, 36                       | " 150 K $\Omega$ 1/4 W                                      | ERD14TJ154 | 2                 |  |      |
|                      | R37, 38                       | " 330 K $\Omega$ 1/4 W                                      | ERD14TJ334 | 2                 |  |      |
|                      | R41, 42, 123                  | " 3.3 K $\Omega$ 1/4 W                                      | ERD14TJ332 | 3                 |  |      |
|                      | R49, 50, 126                  | " 4.7 K $\Omega$ 1/4 W                                      | ERD14TJ472 | 3                 |  |      |
|                      |                               |                                                             |            |                   |  |      |
|                      | R101,102,103,<br>112,113,114, | 104,105,106,107,108,109,110,111,<br>115,116,117,118,119,120 |            |                   |  |      |
|                      |                               | Carbon Resistor 560 $\Omega$ 1/4 W                          | ERD14TJ561 | 20                |  |      |
|                      | R121                          | Wire-wound Resistor 56 $\Omega$ 2 W                         | ERM2P560   | 1                 |  |      |
|                      | R122                          | Carbon Resistor 470 $\Omega$ 1/4 W                          | ERD14TJ471 | 1                 |  |      |
|                      | R124                          | " 1.8 K $\Omega$ 1/4 W                                      | ERD14TJ182 | 1                 |  |      |
|                      | R125                          | " 2.7 K $\Omega$ 1/4 W                                      | ERD14TJ272 | 1                 |  |      |
|                      |                               |                                                             |            |                   |  |      |
|                      | R127                          | Wire-wound Resistor 47 $\Omega$ 2 W                         | ERM2P470   | 1                 |  |      |
|                      | R128                          | Carbon Resistor 6.8 K $\Omega$ 1/4 W                        | ERD14TJ682 | 1                 |  |      |
|                      | R129                          | " 100 K $\Omega$ 1/4 W                                      | ERD14TJ104 | 1                 |  |      |
|                      | R130                          | " 10 K $\Omega$ 1/4 W                                       | ERD14TJ103 | 1                 |  |      |
|                      | R131                          | " 56 K $\Omega$ 1/4 W                                       | ERD14VJ563 | 1                 |  |      |
|                      |                               |                                                             |            |                   |  |      |
|                      | R132, 134,<br>136, 158        | Carbon Resistor 1 K $\Omega$ 1/4 W                          | ERD14VJ102 | 4                 |  |      |
|                      | R133                          | " 15 K $\Omega$ 1/4 W                                       | ERD14VJ153 | 1                 |  |      |
|                      | R135, 156                     | " 2.2 K $\Omega$ 1/4 W                                      | ERD14VJ222 | 2                 |  |      |
|                      | R137                          | " 4.7 K $\Omega$ 1/4 W                                      | ERD14VJ472 | 1                 |  |      |
|                      | R139                          | Metal-oxide Resistor 180 $\Omega$ 1 W                       | ERG1ANJ181 | 1                 |  |      |
|                      |                               |                                                             |            |                   |  |      |
|                      | R140                          | Carbon Resistor 470 K $\Omega$ 1/4 W                        | ERD14TJ474 | 1                 |  |      |
|                      | R141,142,148,<br>149,161      | " 100 $\Omega$ 1/4 W                                        | ERD14TJ101 | 5                 |  |      |
|                      | R143                          | Solid Resistor 56 $\Omega$ 1/2 W                            | ERC12GM560 | 1                 |  |      |
|                      | R144                          | Carbon Resistor 330 $\Omega$ 1/4 W                          | ERD14VJ331 | 1                 |  |      |
|                      | R145                          | " 6.8 K $\Omega$ 1/4 W                                      | ERD14VJ682 | 1                 |  |      |
|                      |                               |                                                             |            |                   |  |      |
|                      | R146, 153                     | Carbon Resistor 15 $\Omega$ 1/4 W                           | ERD14TJ150 | 2                 |  |      |
|                      | R147, 150                     | " 8.2 K $\Omega$ 1/4 W                                      | ERD14TJ822 | 2                 |  |      |
|                      | R151                          | " 180 $\Omega$ 1/4 W                                        | ERD14TJ181 | 1                 |  |      |
|                      | R154, 155                     | " 56 $\Omega$ 1/4 W                                         | ERD14TJ560 | 2                 |  |      |

| Supplyable<br>or Not | Ref. No.                                        | Description                               | Part No.     | Per Set<br>(Pcs.) |  | Note                     |
|----------------------|-------------------------------------------------|-------------------------------------------|--------------|-------------------|--|--------------------------|
|                      | R157                                            | Wire-wound Resistor 120Ω 2 W              | ERM2P121     | 1                 |  |                          |
|                      |                                                 |                                           |              |                   |  |                          |
|                      | R159                                            | Wire-wound Resistor 82Ω 2 W               | ERM2P820     | 1                 |  |                          |
|                      | R160                                            | Carbon Resistor 470 KΩ 1/4 W              | ERD14VJ474   | 1                 |  |                          |
|                      | R201                                            | " 8.2 KΩ 1/4 W                            | ERD14VJ822   | 1                 |  |                          |
|                      | R202                                            | " 33Ω 1/4 W                               | ERD14VJ330   | 1                 |  |                          |
|                      | R203                                            | " 10Ω 1/2 W                               | ERD12VJ100   | 1                 |  |                          |
|                      |                                                 |                                           |              |                   |  |                          |
|                      | R204                                            | Carbon Resistor 560Ω 1/4 W                | ERD14VJ561   | 1                 |  |                          |
|                      | R205                                            | " 100Ω 1/4 W                              | ERD14VJ101   | 1                 |  |                          |
|                      | R206                                            | Wire-wound Resistor 560Ω 2 W              | ERM2P561     | 1                 |  |                          |
|                      |                                                 | <b><u>VARIABLE RESISTORS</u></b>          |              |                   |  |                          |
|                      | VR1, 2, 3, 4, 5,<br>6                           | Semi-fixed Variable Resistor<br>20 KΩ (B) | QVL00AA00B24 | 6                 |  | RS-270US, 275US,<br>818S |
|                      |                                                 | <b><u>CAPACITORS</u></b>                  |              |                   |  |                          |
|                      | C1, 2, 19, 20,<br>21, 22, 110                   | Electrolytic Capacitor 3.3μF              | ECEA25V3R3L  | 7                 |  |                          |
|                      | C3, 4, 9, 10,<br>11, 12, 118                    | " 10μF                                    | ECEA16V10L   | 7                 |  |                          |
|                      | C5, 6, 117                                      | Ceramic Capacitor 100 pF                  | ECCD1H101K   | 3                 |  |                          |
|                      | C7, 8, 27, 28,<br>104                           | Electrolytic Capacitor 100μF              | ECEA6V100L   | 5                 |  |                          |
|                      | C13, 14                                         | Mylar Capacitor 0.018μF                   | ECQM05183KZ  | 2                 |  |                          |
|                      |                                                 |                                           |              |                   |  |                          |
|                      | C15, 16                                         | Styrol Capacitor 390 pF                   | ECQS1391JZ   | 2                 |  |                          |
|                      | C17, 18, 102, 103, 107, 108, 112, 113, 115, 116 |                                           |              |                   |  |                          |
|                      |                                                 | Electrolytic Capacitor 47μF               | ECEA16V47L   | 10                |  |                          |
|                      | C23, 24                                         | " 100μF                                   | ECEA25V100L  | 2                 |  |                          |
|                      | C25, 26                                         | Ceramic Capacitor 22 pF                   | ECCD1H220K   | 2                 |  |                          |
|                      | C31, 32                                         | Electrolytic Capacitor 100μF              | ECEA16V100L  | 2                 |  |                          |
|                      |                                                 |                                           |              |                   |  |                          |
|                      | C33, 34                                         | Electrolytic Capacitor 33μF               | ECEA16V33L   | 2                 |  |                          |
|                      | C35, 36, 37, 38                                 | Mylar Capacitor 0.0068μF                  | ECQM05682KZ  | 4                 |  |                          |
|                      | C101, 106, 109,<br>111, 114                     | Electrolytic Capacitor 220μF              | ECEA16V220L  | 5                 |  |                          |
|                      | C105                                            | " 470μF                                   | ECEA16V470L  | 1                 |  |                          |
|                      | C201                                            | " 220μF                                   | ECEA25V220L  | 1                 |  |                          |
|                      |                                                 |                                           |              |                   |  |                          |

| Supplyable<br>or Not | Ref. No.                                            | Description                                                                                         | Part No.      | Per Set<br>(Pcs.) |  | Note                             |
|----------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------|-------------------|--|----------------------------------|
|                      | C202                                                | Electrolytic Capacitor 33 $\mu$ F                                                                   | ECEA25V33L    | 1                 |  |                                  |
|                      | C203                                                | " 470 $\mu$ F                                                                                       | ECEA25V470L   | 1                 |  |                                  |
|                      | C204                                                | " 2200 $\mu$ F                                                                                      | ECEA16V2200L  | 1                 |  |                                  |
|                      |                                                     | <b><u>COMBINATION PARTS</u></b>                                                                     |               |                   |  |                                  |
|                      | CR1, 2, 3                                           | CR Combination                                                                                      | QCR0002       | 3                 |  | RS-270US, 272US                  |
|                      |                                                     | <b><u>TRANSISTORS</u></b>                                                                           |               |                   |  |                                  |
|                      | TR1, 2, 3, 4                                        | Transistor                                                                                          | 2SC644H(S,T)  | 4                 |  | COMMON                           |
|                      | TR5, 6, 7, 8, 9,                                    | 10, 11, 12, 101, 104, 105, 106, 201                                                                 |               |                   |  |                                  |
|                      |                                                     | "                                                                                                   | 2SC828(R,S,T) | 13                |  | "                                |
|                      | Tr102, 103, 107,                                    | 108, 109, 110                                                                                       |               |                   |  |                                  |
|                      |                                                     | "                                                                                                   | 2SC1317       | 6                 |  | RS-275US, 276US,<br>277US        |
|                      |                                                     | <b><u>DIODES</u></b>                                                                                |               |                   |  |                                  |
|                      | D1, 3                                               | Silicon Rectifier                                                                                   | 10DC1         | 2                 |  | RS-864S, 855US                   |
|                      | D2, 130, 132                                        | "                                                                                                   | 10DC1R        | 3                 |  | "                                |
|                      | D101, 102, 103,<br>112, 113, 114,<br>123, 124, 128, | 104, 105, 106, 107, 108, 109, 110, 111,<br>115, 116, 117, 118, 119, 120, 121, 122,<br>129, 134, 135 |               |                   |  |                                  |
|                      |                                                     | Diode                                                                                               | SD1Y          | 28                |  | RS-270US, 272US,<br>275US, 845US |
|                      | D125, 126, 136,<br>137, 138                         | "                                                                                                   | OA90Z         | 5                 |  | COMMON                           |
|                      | D201                                                | "                                                                                                   | RD7A          | 1                 |  | RS-263US                         |
|                      |                                                     | <b><u>TRANSFORMERS &amp;<br/>COILS</u></b>                                                          |               |                   |  |                                  |
|                      | T1, 2                                               | Headphone Transformer                                                                               | QLA0349       | 2                 |  | RS-263US, 270US,<br>275US, 796US |
|                      | T3                                                  | Power Transformer                                                                                   | QLP0631       | 1                 |  | ★                                |
|                      | L1, 2                                               | Pecking Coil                                                                                        | QLH2012       | 2                 |  | RS-253S, 275US,<br>281S          |
|                      |                                                     | <b><u>PHOTO SEMI<br/>CONDUCTOR</u></b>                                                              |               |                   |  |                                  |
|                      | Cds                                                 | Codmium Sulfide                                                                                     | SR10A         | 1                 |  | RS-256UAS,<br>272US, 275US       |
|                      |                                                     | <b><u>RELAYS</u></b>                                                                                |               |                   |  |                                  |
|                      | RY1, 2, 4, 6                                        | Relay                                                                                               | QSK0119       | 4                 |  | RS-272US, 275US,<br>282S         |
|                      | RY3                                                 | "                                                                                                   | QSK0408       | 1                 |  | RS-275US                         |
|                      | RY5                                                 | "                                                                                                   | QSK0215A      | 1                 |  | "                                |

| Supplyable<br>or Not | Ref. No.                      | Description                                             | Part No.    | Per Set<br>(Pcs.) |  | Note                    |
|----------------------|-------------------------------|---------------------------------------------------------|-------------|-------------------|--|-------------------------|
|                      |                               | <b><u>SWITCHES</u></b>                                  |             |                   |  |                         |
|                      | S1                            | Slide Switch                                            | QSS1153     | 1                 |  | ★                       |
|                      | S2                            | Slide Switch (Muting)                                   | QSS1156     | 1                 |  | ★                       |
|                      | S101,102,103,<br>112,113,114, | 104,105,106,107,108,109,110,111,<br>115,116,117,118,119 |             |                   |  |                         |
|                      |                               | Push Switch                                             | QSW0122     | 19                |  | ★                       |
|                      | S120                          | Push Switch                                             | QSW0203     | 1                 |  | ★                       |
|                      | S121, 122, 123,               | 131, 132, 133, 134, 135                                 |             |                   |  |                         |
|                      |                               | Micro Switch                                            | QSM0040A    | 8                 |  | RS-275US, 864S          |
|                      |                               |                                                         |             |                   |  |                         |
|                      | S124, 125                     | Rotary Switch                                           | ESRE142L25Z | 2                 |  | ★                       |
|                      | S126                          | Rotary Switch                                           | QSR0022     | 1                 |  |                         |
|                      | S127, 128,<br>129, 130        | Micro Switch                                            | QSM0029     | 4                 |  | RS-241S, 246S,<br>275US |
|                      | S201                          | Push Switch (Power ON/OFF)                              | QSW0123S    | 1                 |  | ★                       |
|                      |                               | <b><u>ELECTRICAL PARTS</u></b>                          |             |                   |  |                         |
|                      | E1                            | Head                                                    | QWY4106     | 1                 |  | ★                       |
|                      | E2                            | Pilot Lamp                                              | XAMQS300U   | 1                 |  | ★                       |
|                      | E3                            | Pilot Lamp                                              | XAMQ11P200  | 23                |  | RS-818S                 |
|                      | E4                            | 12 P Plug                                               | QJP0948     | 1                 |  | RS-763S                 |
|                      | E5                            | 12 P Socket                                             | QJS0508H    | 1                 |  | RS-275US                |
|                      |                               |                                                         |             |                   |  |                         |
|                      | E6                            | 12 P Plug                                               | QJP901      | 1                 |  | RS-1000S                |
|                      | E7                            | 12 P Socket                                             | QJS708      | 1                 |  | "                       |
|                      | E8                            | 4 P Plug                                                | QJS0925     | 1                 |  | RS-761S                 |
|                      | E9                            | 4 P Socket                                              | QJS0504     | 1                 |  | RS-770S                 |
|                      | E10                           | 22 P Multi Socket                                       | QJS0126     | 1                 |  | ★                       |
|                      |                               |                                                         |             |                   |  |                         |
|                      | E11                           | 14 P Multi Socket                                       | QJS0125     | 1                 |  | ★                       |
|                      | E12                           | 8 P Socket                                              | QJS0512     | 1                 |  | RS-763S                 |
|                      | E13                           | 6 P Terminal Board                                      | QJT6009     | 1                 |  | RS-272US                |
|                      | E14                           | 1-2 P Terminal Board                                    | QJT2012     | 2                 |  | ★                       |
|                      | E15                           | Headphone Jack                                          | QJA0229     | 1                 |  | COMMON                  |
|                      |                               |                                                         |             |                   |  |                         |
|                      | E16                           | Jack Board Unit                                         | QEJ0235     | 1                 |  | ★                       |

| Supplyable<br>or Not | Ref. No. | Description                 | Part No.    | Per Set<br>(Pcs.) | Note                                                                                         |
|----------------------|----------|-----------------------------|-------------|-------------------|----------------------------------------------------------------------------------------------|
|                      | E17      | AC Cord                     | QFC1016A    | 1                 | COMMON                                                                                       |
|                      | E18      | Switch Shaft                | QMS2202     | 3                 | ★                                                                                            |
|                      | E19      | Switch Spring               | QBC1197     | 3                 | ★                                                                                            |
|                      | E20      | Screw 3×12                  | QHQ1165     | 2                 | ★                                                                                            |
|                      |          |                             |             |                   |                                                                                              |
|                      | E21      | Screw 2.6×12                | QHQ1168     | 40                | ★                                                                                            |
|                      | E22      | AC Cord Bushing             | QTD1129     | 1                 | COMMON                                                                                       |
|                      | E23      | Rubber Bush                 | QBG1019     | 1                 | RS-755S, 770S,<br>780S                                                                       |
|                      | E24      | 1 P Fuse Holder             | QTF1043     | 1                 | ★                                                                                            |
|                      | E25      | Fuse 2A                     | XBAQ0014    | 1                 | ★                                                                                            |
|                      |          | <b><u>CABINET PARTS</u></b> |             |                   |                                                                                              |
|                      | G1       | Wooden Case Assembly        | QYJ1295     | 1                 | ★                                                                                            |
|                      | G1-1     | Jack Cover                  | Q GK2102    | 1                 | ★                                                                                            |
|                      | G1-2     | Screw ⊕2.7×10 (Black)       | XMM27+10FZ  | 4                 | COMMON                                                                                       |
|                      | G2       | Bottom Board                | QKU1175     | 1                 | ★                                                                                            |
|                      | G3       | Rubber Foot                 | QKA1065     | 4                 | RS-845US                                                                                     |
|                      |          |                             |             |                   |                                                                                              |
|                      | G4       | Screw ⊕4×4 (Red)            | XSN4+14RS   | 4                 | COMMON  |
|                      | G5       | Screw ⊕3×6 (Red)            | XYN3+C6RS   | 10                | "       |
|                      | G6       | Screw ⊕4×16 (Brown)         | XSN4+16FNCS | 3                 | "       |
|                      | G7       | Washer 4φ                   | QWQ1131     | 3                 | RS-715US                                                                                     |
|                      | G8       | Flat Washer                 | XWG3        | 22                | COMMON                                                                                       |
|                      |          |                             |             |                   |                                                                                              |
|                      | G9       | Flat Washer 3φ (Black)      | XWE3FZ      | 2                 | COMMON                                                                                       |
|                      | G10      | Index Panel Unit            | QYP0352     | 2                 | ★                                                                                            |
|                      | G11      | Select Knob                 | QYT0245     | 2                 | RS-806US                                                                                     |
|                      | G12      | Screw ⊕2.6×8                | XTN26+8BFZ  | 9                 | COMMON                                                                                       |
|                      | G13      | Screw ⊕4×35 (Black)         | XSN4+35FZS  | 2                 | "       |
|                      |          |                             |             |                   |                                                                                              |
|                      | G14      | Flat Washer 4φ (Black)      | XWE4FZ      | 6                 | COMMON                                                                                       |
|                      | G15      | Cassette Indication Panel   | QGP1235     | 1                 | ★                                                                                            |
|                      | G16      | Switch Panel                | QGP1234     | 1                 | ★                                                                                            |
|                      | G17      | Screw ⊕4×30 (Black)         | XSN4+30FZS  | 4                 | COMMON  |
|                      | G18      | Control Panel Unit          | QYP0350     | 1                 | ★                                                                                            |

| Supplyable<br>or Not | Ref. No. | Description               | Part No.             | Per Set<br>(Pcs.) | Note                      |
|----------------------|----------|---------------------------|----------------------|-------------------|---------------------------|
|                      | G19      | Ornament B                | QGK2101              | 1                 | ★                         |
|                      | G20      | Ornament Angle            | QKT1653              | 7                 | ★                         |
|                      | G21      | Screw $\oplus 3 \times 8$ | XTN3+8B              | 38                | COMMON                    |
|                      | G22      | Panel                     | QGP1232              | 1                 | ★                         |
|                      | G23      | Oranment-B                | QGK2100              | 1                 | ★                         |
|                      |          |                           |                      |                   |                           |
|                      | G24      | Ornament Stopper          | QKT1456S             | 3                 | RS-820S                   |
|                      | G25      | Control Button            | QGO4096              | 3                 | ★                         |
|                      | G26      | Power Button              | QXB0137              | 1                 | ★                         |
|                      | G27      | Cap Cover                 | QBG1364              | 1                 | ★                         |
|                      | G28      | Control Button Holder     | QBM1138              | 1                 | ★                         |
|                      |          |                           |                      |                   |                           |
|                      | G29      | Switch Button Holder      | QBM1139              | 1                 | ★                         |
|                      | G30      | Cassette Select Button    | QXB0130              | 20                | ★                         |
|                      | G31      | Dust Cover                | QYA0158              | 1                 | ★                         |
|                      | G32      | Name Plate                | QGS1606              | 1                 | ★                         |
|                      |          | <b><u>ACCESSORIES</u></b> |                      |                   |                           |
|                      | A1       | Connection Cord-G         | RP8125<br>(QEB0060P) | 1                 | COMMON                    |
|                      | A2       | Head Cleaning Tape        | QFQ1039              | 1                 | ★                         |
|                      | A3       | Index Card Assembly       | QFQ1032              | 4                 | ★                         |
|                      | A4       | Instruction Book          | QQT1669              | 1                 | ★                         |
|                      | (A4)     | Instruction (French)      | QQT1670              | (1)               | ★ For Canada              |
|                      |          | <b><u>PACKINGS</u></b>    |                      |                   |                           |
|                      | P1       | Inside Carton             | QPN2717              | 1                 | ★                         |
|                      | P2       | Cushion-A                 | QPN2718              | 1                 | ★                         |
|                      | P3       | Cushion-B                 | QPN2719              | 1                 | ★                         |
|                      | P4       | Cushion-C                 | QPN2720              | 1                 | ★                         |
|                      | P5       | Spacer-A                  | QPN2780              | 2                 | ★                         |
|                      |          |                           |                      |                   |                           |
|                      | P6       | Spacer-B                  | QPN2779              | 1                 | ★                         |
|                      | P7       | Poly Sheet                | QPQ1057              | 1                 | RS-257S, 257DS,           |
|                      | P8       | Accessory Bag             | QFV0047              | 1                 | RS-803US, 845US,<br>847US |
|                      | P9       | Outside Carton            | QPG2004              | 1                 | ★                         |

